CDX-L350/L360

SERVICE MANUAL

AEP Model
UK Model

Ver 1.0 2001. 02

Photo: CDX-L350

• The tuner and CD sections have no adjustments.

Model Name Using Similar Mechanism	CDX-CA650
CD Drive Mechanism Type	MG-393X-121//Q
Optical Pick-up Name	KSS-720A

SPECIFICATIONS

CD player section

Signal-to-noise ratio	90 dB
Frequency response	10 – 20,000 Hz
Wow and flutter	Below measurable limit

Tuner section

FM

Tuning range	87.5 – 108.0 MHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Usable sensitivity	8 dBf
Selectivity	75 dB at 400 kHz
Signal-to-noise ratio	66 dB (stereo), 72 dB (mono)
Harmonic distortion at 1 kHz	0.6% (stereo), 0.3% (mono)
Separation	35 dB at 1 kHz
Frequency response	30 – 15,000 Hz

MW/LW

Tuning range	MW: 531 – 1,602 kHz LW: 153 – 279 kHz
Aerial terminal	External aerial connector
Intermediate frequency	10.7 MHz/450 kHz
Sensitivity	MW: 30 µV LW: 40 µV

Power amplifier section

Outputs	Speaker outputs (sure seal connectors)
Speaker impedance	4 – 8 ohms
Maximum power output	45 W × 4 (at 4 ohms)

General

Outputs	Power aerial relay control lead
Inputs	Telephone ATT control lead
Tone controls	Bass ±9 dB at 100 Hz Treble ±9 dB at 10 kHz
Power requirements	12 V DC car battery (negative ground)
Dimensions	Approx. 178 × 50 × 177 mm (w/h/d)
Mounting dimension	Approx. 182 × 53 × 162 mm (w/h/d)
Mass	Approx. 1.2 kg
Supplied accessories	Parts for installation and connections (1 set) Front panel case (1)

Design and specifications are subject to change without notice.

FM/MW/LW COMPACT DISC PLAYER

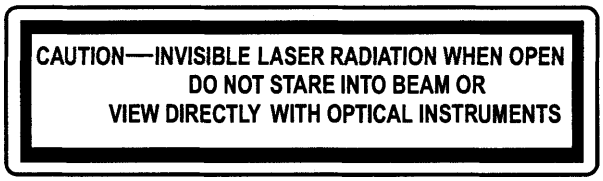
9-870-278-11
2001B0400-1
© 2001. 2

Sony Corporation
Audio Entertainment Group
General Engineering Dept.

SONY®

SERVICE NOTES

This label is located on the bottom of the chassis.



This label is located on the drive unit's internal chassis.

When replacing the chassis (T.U) of mechanism deck which have the “CAUTION LABEL” attached, please be sure to put a new CAUTION LABEL (3-223-913-11) to the chassis (T.U).

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on Chip Component Replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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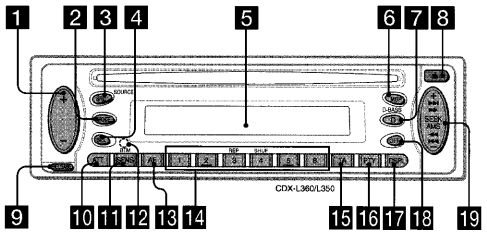
SECTION 1
GENERAL

This section is extracted from instruction manual.

Location of controls

Refer to the pages listed for details.
CD : During Playback RADIO : During radio reception



1 Volume +/– button 8, 13, 17
2 MODE button
RADIO 10, 11, 13
3 SRC (SOURCE) (TUNER/CD) button 8, 10, 11, 13
4 SEL (select) button 8, 15, 17, 18
5 Display window
6 MBP (My Best sound Position) button 18
7 D (D-BASS) button 18
8 ⏏ (eject) button 8
9 RELEASE (front panel release) button 7
10 ATT (attenuate) button 17
11 SENS/BTM button 10, 13
12 RESET button (located on the front side of the unit, behind the front panel) 6
13 AF button 12, 13
14 Number buttons 17
CD
③ REP 9
④ SHUF 9
RADIO 10, 11, 12, 13, 15
15 TA button 13
16 PTY (programme type) button 14
17 DSPL (display mode change) button 8, 9, 11
18 OFF button* 7, 8
19 SEEK/AMS +/– button
CD 8
RADIO 10, 11, 12, 14

* **Warning when installing in a car without an ACC (accessory) position on the ignition key switch**
Be sure to press (OFF) on the unit for 2 seconds to turn off the clock display after turning off the engine.
Otherwise, the clock display does not turn off and this causes battery drain.

Setting the clock

The clock uses a 24-hour digital indication.

Example: To set the clock to 10:08

1 Press (DSPL) for 2 seconds.
The hour indication flashes.

❶ Press either side of the volume +/– button to set the hour.

❷ Press (SEL).
The minute indication flashes.

❸ Press either side of the volume +/– button to set the minute.

2 Press (DSPL).

The clock starts. After the clock setting is completed, the display returns to normal play mode.

Tip
You can set the clock automatically with the RDS feature (page 15).

CD Player

Playing a disc

Insert the disc (labelled side up).

Playback starts automatically.

If a disc is already inserted, press (SRC) repeatedly until "CD" appears to start playback.

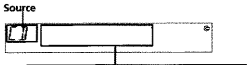
To	Press
Stop playback	⏏ or (OFF)
Eject the disc	⏏
Skip tracks – Automatic Music Sensor	(SEEK/AMS) (⏮ / ⏭) [once for each track]
Fast-forward/ reverse – Manual Search	(SEEK/AMS) (◀◀ / ▶▶) [hold to desired point]

Note
When the last track on the disc is over, playback restarts from the first track of the disc.

Display items

When the disc/track changes, any prerecorded title of the new disc/track is automatically displayed.

Source



Displayable items
• Track number/Elapsed playing time
• Disc name*1/Artist name*2
• Track title*1

To	Press
Switch display item	(DSPL)

*1 "NO NAME" indicates there is no prerecorded name to display.
*2 Only for CD TEXT discs with the artist name.

Notes
• *Disc name, artist name, and track title can be displayed with up to 8 characters.*
• *Some characters cannot be displayed.*
• *This unit cannot display the artist name for each track of a CD TEXT disc.*

Automatically scrolling a disc name — Auto Scroll

If the disc name, artist name, or track name on a CD TEXT disc exceeds 8 characters and the Auto Scroll function is on, information automatically scrolls across the display as follows:
• *The disc name appears when the disc has changed (if the disc name is selected).*
• *The track name appears when the track has changed (if the track name is selected).*

If you press (DSPL) to change the display item, the disc or track name of the disc is scrolled automatically whether you set the function on or off.

Selecting "A.SCRL-ON"

During playback, press (SEL) and ③ simultaneously.

In 2 seconds the normal display automatically appears.

To select "A.SCRL-OFF", press (SEL) and ③ simultaneously again.

Note
For some discs with very many characters, the following cases may happen:
— Some of the characters are not displayed.
— Auto Scroll does not work.

Playing tracks repeatedly — Repeat Play

The current track will repeat itself when it reaches the end.

During playback, press ③ (REP) repeatedly until "REP-1" appears in the display.
Repeat Play starts.

To return to normal play mode, select "REP-OFF."

Playing tracks in random order — Shuffle Play

You can select to play the tracks on the current disc in random order.

During playback, press ④ (SHUF) repeatedly until "SHUF-1" appears in the display.
Shuffle Play starts.

To return to normal play mode, select "SHUF-OFF."

Radio

The unit can store up to 6 stations per band (FM1, FM2, FM3, MW, and LW).

Caution
When tuning in stations while driving, use Best Tuning Memory to prevent accidents.

Storing stations automatically — Best Tuning Memory (BTM)

The unit selects the stations with the strongest signals within the selected band, and stores them in the order of their frequency.

1 Press (SRC) repeatedly to select the radio.

2 Press (MODE) repeatedly to select the band.

3 Press (SENS/BTM) for 2 seconds.
The unit stores stations in the order of their frequencies on the number buttons. A beep sounds when the setting is stored.

Notes
• *If only a few stations can be received due to weak signals, some number buttons will retain their former settings.*
• *When a number is indicated in the display, the unit starts storing stations from the one currently displayed.*

Receiving the stored stations

1 Press (SRC) repeatedly to select the radio.

2 Press (MODE) repeatedly to select the band.

3 Press the number button (① to ⑥) on which the desired station is stored.

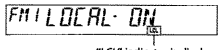
If preset tuning does not work — Automatic tuning/ Local Seek Mode

Automatic tuning:

Press either side of (SEEK/AMS) to search for the station.
Scanning stops when the unit receives a station. Press either side of (SEEK/AMS) repeatedly until the desired station is received.

Local Seek Mode:

If the automatic tuning stops too frequently, press (SENS/BTM) repeatedly until "LOCAL-ON" appears.



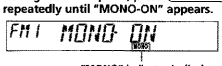
"LCL" indicator is displayed.

Only the stations with relatively strong signals will be tuned in.

Tip
If you know the frequency of the station you want to listen to, press either side of (SEEK/AMS) until the desired frequency appears (manual tuning).

If FM stereo reception is poor — Monaural Mode

During radio reception, press (SENS/BTM) repeatedly until "MONO-ON" appears.



"MONO" indicator is displayed.

The sound improves, but becomes monaural ("ST" disappears).

To return to normal mode, select "MONO-OFF."

Storing only the desired stations

You can manually preset the desired stations on any chosen number button.

1 Press (SRC) repeatedly to select the radio.

2 Press (MODE) repeatedly to select the band.

3 Press either side of (SEEK/AMS) to tune in the station that you want to store.

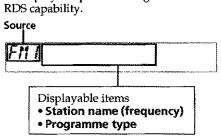
4 Press the desired number button (1 to 6) until "MEM" appears.
The number button indication appears in the display.

Note
If you try to store another station on the same number button, the previously stored station will be erased.

RDS

Overview of RDS

FM stations servicing Radio Data System (RDS) sends inaudible digital information along with the regular radio programme signal. For example, one of the following will be displayed upon receiving a station with RDS capability.



To	Press
Switch display item	(DSPL)

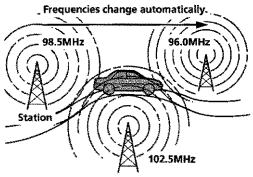
RDS services

RDS data offers you other conveniences, such as:
- **Automatic retuning** of a programme, helpful during long-distance drives. — AF → page 12
- Receiving **traffic announcements**, even when enjoying another programme/source. — TA → page 13
- Selecting stations by the **type of programme** it broadcasts. — PTY → page 14
- Automatic **clock time** setting. — CT → page 15

Notes
- *Depending on the country or region, not all of the RDS functions are available.*
- *RDS may not work properly if the signal strength is weak or if the station you are tuned to is not transmitting RDS data.*

Automatic retuning for best reception results — AF function

The alternative frequencies (AF) function allows the radio to always tune into the area's strongest signal for the station you are listening to.



1 Select an FM station (page 10).

2 Press (AF) repeatedly until "AF-ON" appears.
The unit starts searching for an alternative station with a stronger signal in the same network.
If "NO AF" flashes, the currently tuned into station does not have an alternative frequency.

Notes
- *If you want to change the on/off setting while playing a CD, press (AF).*
- *When there is no alternative frequency in the area or when you do not need to search for one, turn the AF function off by selecting "AF-OFF."*

For stations without alternative frequencies

Press either side of (SEEK/AMS) while the station name is flashing (within 8 seconds).
The unit starts searching for another frequency with the same PI (Programme Identification) data ("PI SEEK" appears).
If the unit cannot find the same PI, the unit returns to the previously selected frequency.

Staying with one regional programme

When AF function is on: this unit's factory-set setting restricts reception to a specific region, so you won't be switched to another regional station with a stronger frequency.
If you leave this regional programme's reception area or would like to take advantage of the whole AF function, press (AF) for 2 seconds until "REG-OFF" appears.

Note
This function does not work in the United Kingdom and in some other areas.

Local Link function (United Kingdom only)

This function enables you to select other local stations in the area, even if they are not stored on your number buttons.

1 Press a number button (1 to 6) that has a local station stored on it.

2 Within 5 seconds, press the number button of the local station again.

3 Repeat this procedure until the desired local station is received.

Receiving traffic announcements — TA/TP

By activating the Traffic Announcement (TA) and Traffic Programme (TP). You can automatically tune in an FM station broadcasting traffic announcements. These settings function regardless of the current FM programme/source, CD; the unit switches back to the original source when the bulletin is over.

Press (TA) repeatedly until "TA-ON" appears.
The unit starts searching for traffic information stations.
"TP" indicates reception of such stations, and "TA" flashes during an actual traffic announcement. The unit will continue searching for stations available with TP if "NO TP" is indicated.
To cancel all traffic announcements, select "TA-OFF".

To	Press
Cancel current announcement	(TA)

Tip
You can also cancel the current announcement by pressing (SRC) or (MODE).

Presetting the volume of traffic announcements

You can preset the volume level of the traffic announcements so you won't miss hearing them.

1 Press either side of the volume +/– button to adjust the desired volume level.

2 Press (TA) for 2 seconds.
"TA" appears and the setting is stored.

Receiving emergency announcements

If either AF or TA is on, the unit will switch to emergency announcements, if one comes in while listening to an FM station or CD.

Presetting RDS stations with AF and TA setting

When you preset RDS stations, the unit stores each station's AF/TA setting (on/off) as well as its frequency. You can select a different setting (for AF, TA, or both) for individual preset stations, or the same setting for all preset stations. If you preset stations with "AF on" the unit automatically stores stations with the strongest radio signal.

Presetting the same setting for all preset stations

1 Select an FM band (page 10).

2 Press (AF) and/or (TA) to select "AF-ON" and/or "TA-ON."
Note that selecting "AF-OFF" or "TA-OFF" stores not only RDS stations, but also non-RDS stations.

3 Press (SENS/BTM) until "BTM" flashes.

Presetting different settings for each preset station

1 Select an FM band, and tune in the desired station.

2 Press (AF) and/or (TA) to select "AF-ON" and/or "TA-ON."

3 Press the desired number button until "MEM" appears.
Repeat from step 1 to preset other stations.

Note
If you want to change the AF/TA setting while you are playing a CD, press (AF) or (TA).

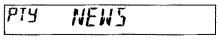
Tuning in stations by programme type — PTY

You can tune in a station by selecting the type of programme you would like to listen to.

Programme types	Display
News	NEWS
Current Affairs	AFFAIRS
Information	INFO
Sports	SPORT
Education	EDUCATE
Drama	DRAMA
Culture	CULTURE
Science	SCIENCE
Varied	VARIED
Popular Music	POP M
Rock Music	ROCK M
Easy Listening	EASY M
Light Classical	LIGHT M
Classical	CLASSICS
Other Music Type	OTHER M
Weather	WEATHER
Finance	FINANCE
Children's Programmes	CHILDREN
Social Affairs	SOCIAL A
Religion	RELIGION
Phone In	PHONE IN
Travel	TRAVEL
Leisure	LEISURE
Jazz Music	JAZZ
Country Music	COUNTRY
National Music	NATION M
Oldies Music	OLDIES
Folk Music	FOLK M
Documentary	DOCUMENT

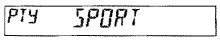
Note
You cannot use this function in some countries where no PTY (Programme Type selection) data is available.

1 Press (PTY) during FM reception.



The current programme type name appears if the station is transmitting the PTY data. "--------" appears if the received station is not an RDS station, or if the RDS data is not received.

2 Press (PTY) repeatedly until the desired programme type appears.
The programme types appear in the order shown in the above table. "--------" appears if the programme type is not specified if the RDS data.



3 Press either side of (SEEK/AMS).
The unit starts searching for a station broadcasting the selected programme type.

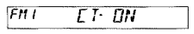
Setting the clock automatically — CT

The CT (Clock Time) data from the RDS transmission sets the clock automatically.

Selecting "CT-ON"

During radio reception, press (SEL) and (2) simultaneously.

The clock is set.



In one second the normal display automatically appears.

To select "CT-OFF", press (SEL) and (2) simultaneously again.

Notes

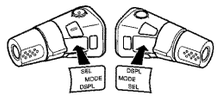
- *The CT function may not work even though an RDS station is being received.*
- *There might be a difference between the time set by the CT function and the actual time.*

Other Functions

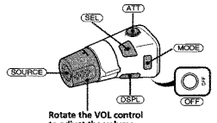
You can also control the unit with a rotary commander **(optional)** (CDX-L360 only).

Using the rotary commander (CDX-L360 only)

First, attach the appropriate label depending on how you want to mount the rotary commander.
The rotary commander works by pressing buttons and/or rotating controls.



By pressing buttons

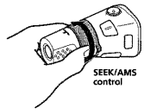


Rotate the VOL control to adjust the volume.

Press	To
(SOURCE)	Change source (radio/CD)
(MODE)	Change radio band
(ATT)	Attenuate sound
(OFF) *	Stop playback or radio reception
(SEL)	Adjust the sound menu
(DSPL)	Change the display item

** If your car has no ACC (accessory) position on the ignition key switch, be sure to press (OFF) for 2 seconds to turn off the clock indication after turning off the ignition.*

By rotating the control



Rotate and release to:
– Skip tracks.
– Tune in stations automatically.

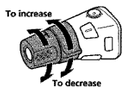
Rotate, hold, and release to:
– Fast-forward/reverse a track.
– find a station manually.

By pushing in and rotating the control

Push in and rotate the control to:
– Receive preset stations.

Changing the operative direction

The operative direction of controls is factory-set as shown below.



If you need to mount the rotary commander on the right hand side of the steering column, you can reverse the operative direction.

Press (SEL) for 2 seconds while pushing the VOL control.

Adjusting the sound characteristics

You can adjust the bass, treble, balance, and fader.
The bass and treble levels can be stored independently for each source.

1 Select the item you want to adjust by pressing (SEL) repeatedly.
Each time you press (SEL), the item changes as follows:

BAS (bass) → TRE (treble) → BAL (left-right) → FAD (front-rear)

2 Adjust the selected item by pressing either side of the volume +/– button.
When adjusting with the rotary commander, press (SEL) and rotate the VOL control.

Note
Adjust within 3 seconds after selecting the item.

Quickly attenuating the sound

Press (ATT).
After "ATT-ON" momentarily flashes, the "ATT" indication appears in the display.

To restore the previous volume level, press (ATT) again.
"ATT-OFF" flashes momentarily.

Tip
When the interface cable of a car telephone is connected to the ATT lead, the unit decreases the volume automatically when a telephone call comes in (Telephone ATT function).

Changing the sound and display settings

The following items can be set:
- CT (Clock Time) (page 15).
- A.SCRL (Auto Scroll)* (page 9).
- M.DSPL (Motion Display)
  – the demonstration mode which appears when no source is selected (e.g., tuner is turned off).
- BEEP – to turn the beep sound on or off.

Selecting the desired item

Press (SEL) and the desired preset number button simultaneously.

(SEL) + (2): CT
(SEL) + (3): A.SCRL*
(SEL) + (4): M.DSPL
(SEL) + (6): BEEP

** When no CD is playing, this item will not appear.*

After the mode setting completed, the display returns to normal play mode.

Note
The displayed item will differ depending on the source.

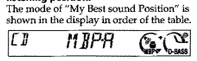
To cancel the item, press (SEL) and the preset number button simultaneously again.

Selecting the sound position — My Best sound Position (MBP)

When you drive without passengers, you can enjoy the most comfortable sound environment with "My Best sound Position." "My Best sound Position" has two presets, which adjust the sound level of balance and fader. You can select one very easily with the MBP button.

Display window	Balance Level		Fader Level	
	Right	Left	Front	Rear
MBP-A	– 4dB	0	0	– 4dB
MBP-B	0	– 4dB	0	– 4dB
MBP-OFF	0	0	0	0

Press (MBP) repeatedly for the desired listening position.
The mode of "My Best sound Position" is shown in the display in order of the table.

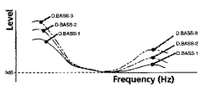


After one second, the display goes back to the normal playback mode.
If you want to adjust the sound level of balance and fader more precisely, you can do it using the (SEL) button. (page 17)

Notes
- *When the BAL (balance) or FAD (fader) in "Adjusting the sound characteristics" (page 17) is adjusted, the MBP setting returns OFF.*
- *When MBP is set to OFF, the BAL and FAD setting is activated.*

Boosting the bass sound — D-bass

You can enjoy a clear and powerful bass sound. The D-bass function boosts the low frequency signal and high frequency signal with a sharper curve than conventional bass boost.
You can hear the bass line more clearly even while the vocal volume remains the same. You can emphasize and adjust the bass sound easily with the (D) (D-BASS) button.



Adjusting the bass curve

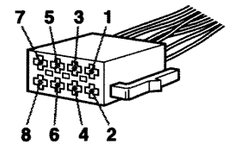
Press (D) (D-BASS) repeatedly to select the desired bass curve.
As the D-BASS number increases so does the effect.

Note
The bass sound may distort at same volume. If the bass sound distorts, select less effective bass curve.

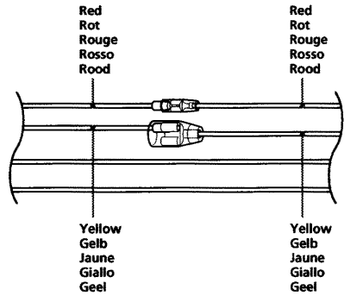
Power connection diagram

Auxiliary power connector may vary depending on the car. Check your car's auxiliary power connector diagram to make sure the connections match correctly. There are three basic types (illustrated below). You may need to switch the positions of the red and yellow leads in the car stereo's power connecting cord.
After matching the connections and switched power supply leads correctly, connect the unit to the car's power supply. If you have any questions and problems connecting your unit that are not covered in this manual, please consult the car dealer.

Auxiliary power connector
Hilfsstromanschluß
Connecteur d'alimentation auxiliaire
Connettore di alimentazione ausiliare
Hulpvoedingsaansluiting

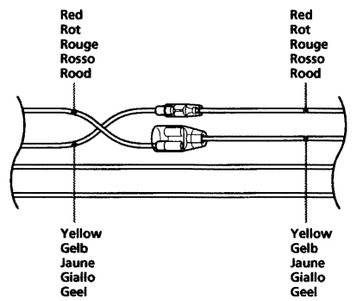


a



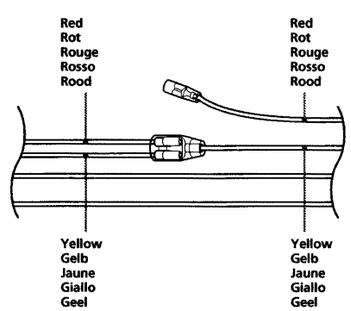
4	Yellow / Gelb / Jaune / Giallo / Geel	continuous power supply / permanente Stromversorgung / alimentation continue / alimentazione continua / continu voeding	7	Red / Rot / Rouge / Rosso / Rood	switched power supply / geschaltete Stromversorgung / alimentation commutée / alimentazione commutata / geschakelde voeding

b



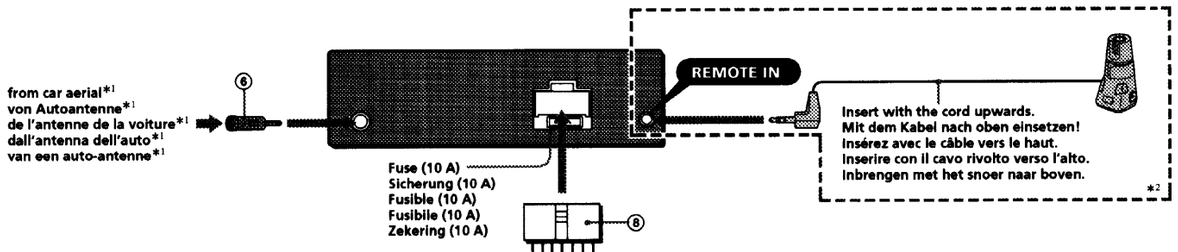
4	Yellow / Gelb / Jaune / Giallo / Geel	switched power supply / geschaltete Stromversorgung / alimentation commutée / alimentazione commutata / geschakelde voeding	7	Red / Rot / Rouge / Rosso / Rood	continuous power supply / permanente Stromversorgung / alimentation continue / alimentazione continua / continu voeding

c



the car without ACC position
Fahrzeug ohne Zubehörposition (ACC)
Voiture sans position ACC
la macchina senza posizione ACC
Wagen zonder ACC stand

3


from car aerial*1
von Autoantenne*1
de l'antenne de la voiture*1
dall'antenna dell'auto*1
van een auto-antenne*1
REMOTE IN
Insert with the cord upwards.
Mit dem Kabel nach oben einsetzen!
Insérez avec le câble vers le haut.
Inserire con il cavo rivolto verso l'alto.
Inbrengen met het snoer naar boven.
*2
Fuse (10 A)
Sicherung (10 A)
Fusible (10 A)
Fusibile (10 A)
Zekering (10 A)
Blue/white striped
Blau-weiß gestreift
Rayé bleu/blanc
A strisce blu e bianche
Blauw/wit gestreept
not used
Nicht verwendet
Non utilisé
Non utilizzato
Vrij
AMP REM
Light blue
Hellblau
Bleu ciel
Azzurro
Hemelsblauw
ATT
to the interface cable of a car telephone
an Schnittstellenkabel eines Autotelefons
vers le cordon de liaison d'un téléphone de voiture
al cavo interfaccia di un telefono per auto
naar het interface-snoer van een autotelefoon
from the car's power connector
vom Stromanschluß des Fahrzeugs
du connecteur d'alimentation de la voiture
dal connettore di alimentazione dell'auto
van de autovoedingsstekker
5 7
4 8
from the car's speaker connector
vom Lautsprecheranschluß des Fahrzeugs
du connecteur de haut-parleur de la voiture
dal connettore del diffusore dell'auto
van de autoluidsprekerstekker
1 3 5 7
2 4 6 8
See "Power connection diagram" in the back for details.
Näheres dazu finden Sie im „Stromanschlußdiagramm". Blättern Sie dazu bitte um.
Voir le "Schéma de connexion d'alimentation" au verso pour plus de détails.
Per ulteriori informazioni, vedere "Diagramma dei collegamenti di alimentazione" che si trova sul retro.
Zie "Voedingsaansluitschema" op de schterkant voor meer details.

*1 ***Note for the aerial connecting***
If your car aerial is an ISO (International Organisation for Standardisation) type, use the supplied adaptor ⑥ to connect it.
First connect the car aerial to the supplied adaptor, then connect it to the aerial jack of the master unit.
*2 ***CDX-L360 only***

*1 ***Hinweis zum Anschließen der Antenne***
Wenn Ihre Fahrzeugantenne der ISO-Norm (ISO = International Organization for Standardization - Internationale Normungsgemeinschaft) entspricht, schließen Sie sie mit Hilfe des mitgelieferten Adapters ⑥ an.
Verbinden Sie zuerst die Fahrzeugantenne mit dem mitgelieferten Adapter, und verbinden Sie diesen dann mit der Antennenbuchse des Hauptgeräts.
*2 ***Nur CDX-L360***

*1 ***Remarque sur le raccordement de l'antenne***
Si votre antenne de voiture est de type ISO (organisation internationale de normalisation), utilisez l'adaptateur fourni ⑥ pour la raccorder.
Raccordez d'abord l'antenne de voiture à l'adaptateur fourni et, ensuite, à la prise d'antenne de l'appareil principal.
*2 ***CDX-L360 seulement***

*1 ***Nota per il collegamento dell'antenna***
Se la vostra antenna della macchina è di tipo ISO (International Organization Standardization), utilizzare l'adattatore ⑥ in dotazione per collegarla.
Collegare prima l'antenna della macchina all'adattatore in dotazione, quindi collegarla alla presa dell'antenna dell'apparecchio principale.
*2 ***Solo CDX-L360***

*1 ***Opmerking bij de antenne-aansluiting***
Indien uw wagen is uitgerust met een antenne van het type ISO (International Organisation for Standardization), moet u die aansluiten met behulp van de meegeleverde adaptor ⑥.
Sluit eerst de auto-antenne aan op de meegeleverde adaptor en vervolgens de antennestekker op het hoofdtoestel.
*2 ***Alleen voor de CDX-L360***

4	Yellow Gelb Jaune Giallo Geel	continuous power supply permanente Stromversorgung alimentation continue alimentazione continua continu voeding	7	Red Rot Rouge Rosso Rood	switched power supply geschaltete Stromversorgung alimentation commutée alimentazione commutata geschakelde voeding
5	Blue Blau Bleu Blu Blauw	power aerial control Motorantenne antenne électrique comando dell'antenna elettrica automatische antenne	8	Black Schwarz Noir Nero Zwart	earth Masse masse terra aarding

Positions 1, 2, 3 and 6 do not have pins.
An Position 1, 2, 3 und 6 befinden sich keine Stifte.
Les positions 1, 2, 3 et 6 ne comportent pas de broches.
Le posizioni 1, 2, 3 e 6 non hanno piedini.
De posities 1, 2, 3 en 6 hebben geen pins.

1	Purple Violett Mauve Viola Paars	+	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	5	White Weiß Blanc Bianco Wit	+	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
2		–	Speaker, Rear, Right Lautsprecher hinten rechts haut-parleur, arrière, droit Diffusore, posteriore, destro Luidspreker, achter, rechts	6		–	Speaker, Front, Left Lautsprecher vorne links haut-parleur, avant, gauche Diffusore, anteriore, sinistro Luidspreker, voor, links
3	Grey Grau Gris Grigio Grijs	+	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	7	Green Grün Vert Verde Groen	+	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links
4		–	Speaker, Front, Right Lautsprecher vorne rechts haut-parleur, avant, droit Diffusore, anteriore, destro Luidspreker, voor, rechts	8		–	Speaker, Rear, Left Lautsprecher hinten links haut-parleur, arrière, gauche Diffusore, posteriore, sinistro Luidspreker, achter, links

Negative polarity positions 2, 4, 6, and 8 have striped cords.
An den negativ gepolten Positionen 2, 4, 6 und 8 befinden sich gestreifte Adern.
Les positions de polarité négative 2, 4, 6 et 8 sont dotées de cordons rayés.
Le posizioni a polarità negativa 2, 4, 6 e 8 hanno cavi rigati.
De negatieve posities 2, 4, 6 en 8 hebben gestreepte kabels.

Cautions

- This unit is designed for negative earth 12 V DC operation only.
- Do not get the wires under a screw, or caught in moving parts (e.g. seat railing).
- Before making connections, turn the car ignition off to avoid short circuits.
- Connect the power connecting cord ⑧ to the unit and speakers before connecting it to the auxiliary power connector.
- **Run all earth wires to a common earth point.**
- Be sure to insulate any loose unconnected wires with electrical tape for safety.

Notes on the power supply cord (yellow)

- When connecting this unit in combination with other stereo components, the connected car circuit's rating must be higher than the sum of each component's fuse.
- When no car circuits are rated high enough, connect the unit directly to the battery.

Connection diagram (3)

Warning

If you have a power aerial without a relay box, connecting this unit with the supplied power connecting cord ⑧ may damage the aerial.

Notes on the control leads

- *The power aerial control lead (blue) supplies +12 V DC when you turn on the tuner or when you activate the AF (Alternative Frequency), TA (Traffic Announcement) function.*
- *When your car has built-in FM/MW/LW aerial in the rearside glass, connect the power aerial control lead (blue) or the accessory power input lead (red) to the power terminal of the existing aerial booster. For details, consult your dealer.*
- *A power aerial without a relay box cannot be used with this unit.*

Memory hold connection

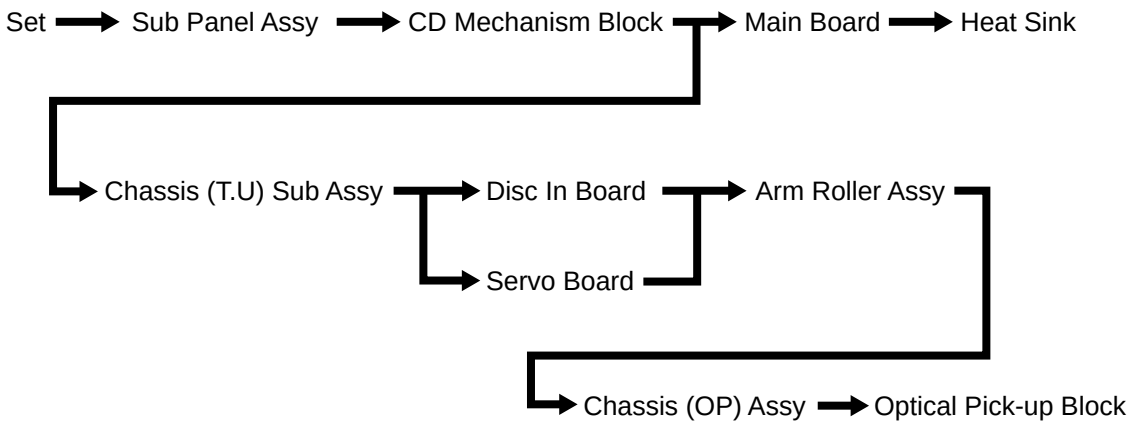
When the yellow power input lead is connected, power will always be supplied to the memory circuit even when the ignition switch is turned off.

Notes on speaker connection

- *Before connecting the speakers, turn the unit off.*
- *Use speakers with an impedance of 4 to 8 ohms, and with adequate power handling capacities to avoid its damage.*
- *Do not connect the speaker terminals to the car chassis, or connect the terminals of the right speakers with those of the left speaker.*
- *Do not connect the ground lead of this unit to the negative (–) terminal of the speaker.*
- *Do not attempt to connect the speakers in parallel.*
- *Connect only passive speakers. Connecting active speakers (with built-in amplifiers) to the speaker terminals may damage the unit.*

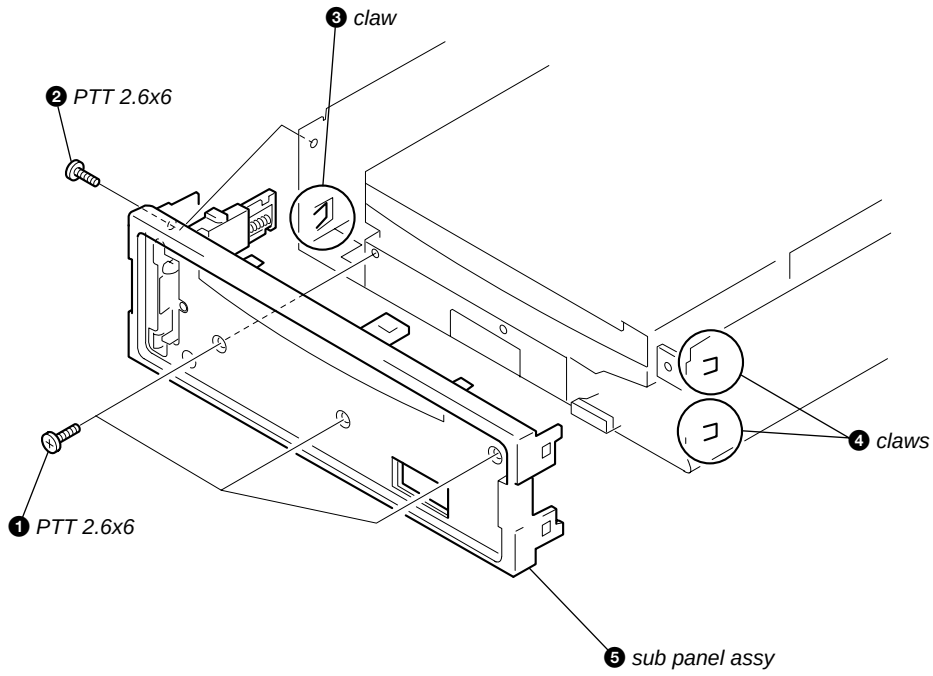
SECTION 2
DISASSEMBLY

• The equipment can be removed using the following procedure.

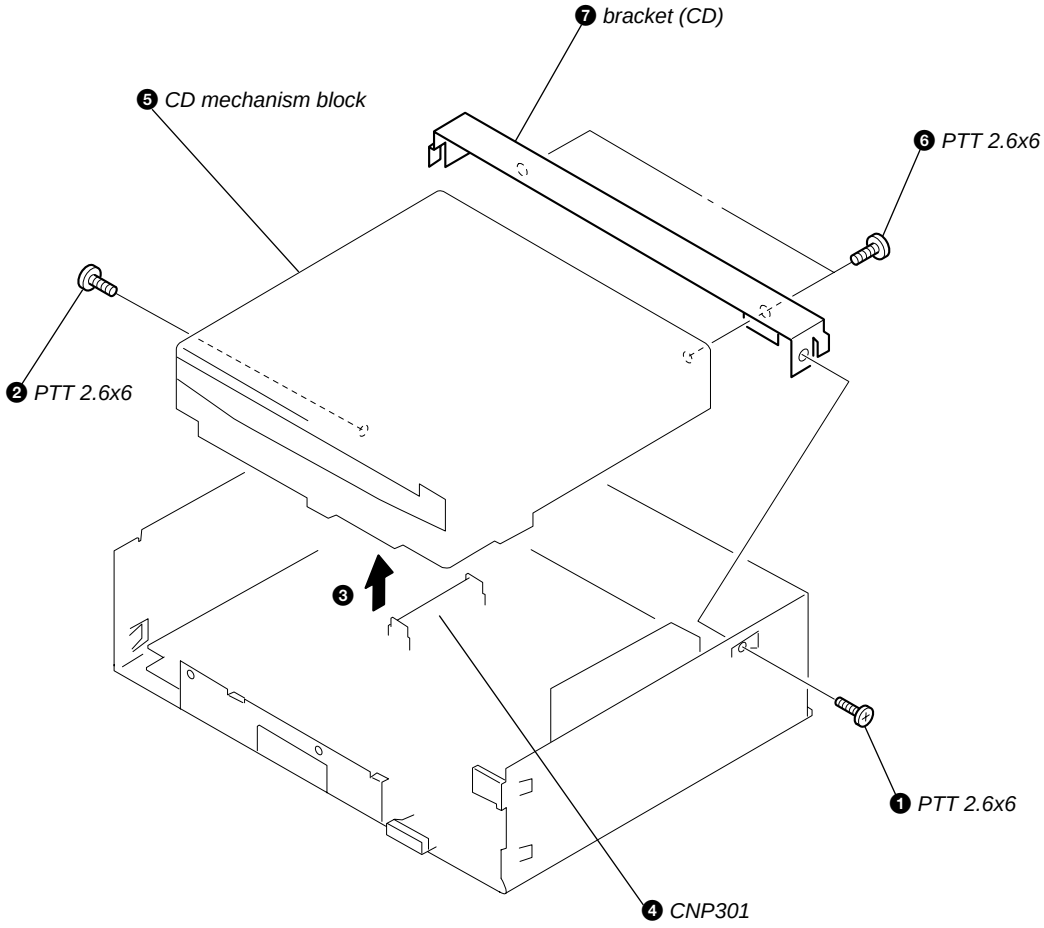


Note : Follow the disassembly procedure in the numerical order given.

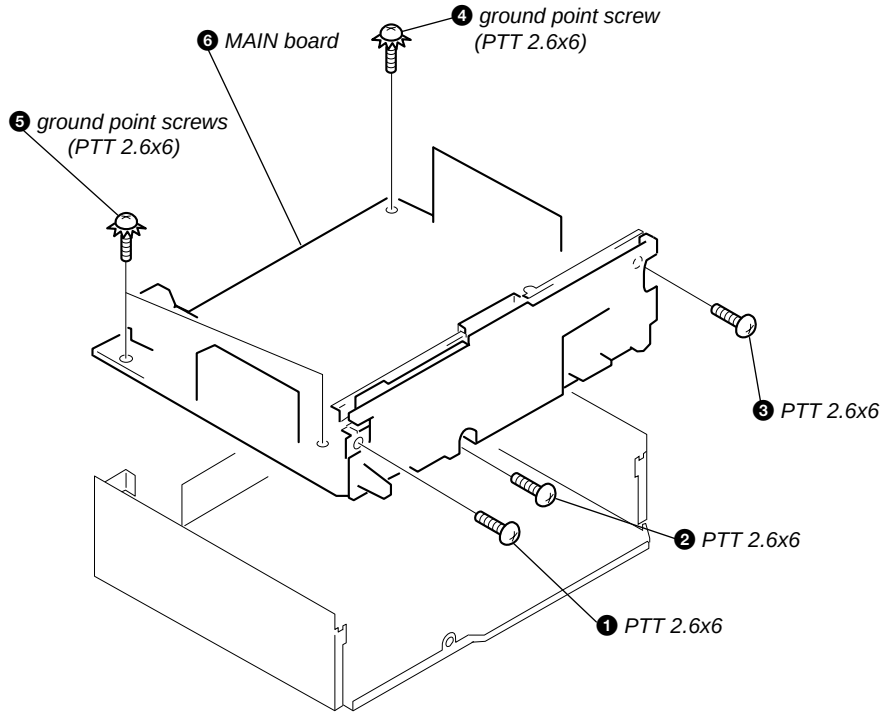
2-1. SUB PANEL ASSY



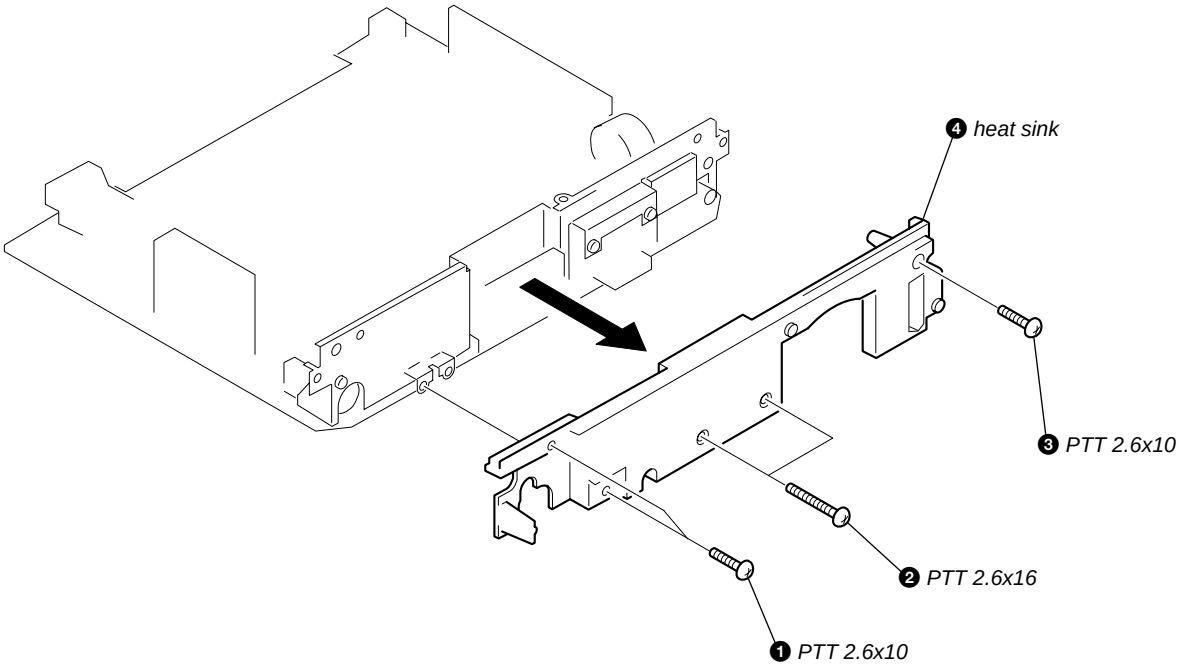
2-2. CD MECHANISM BLOCK



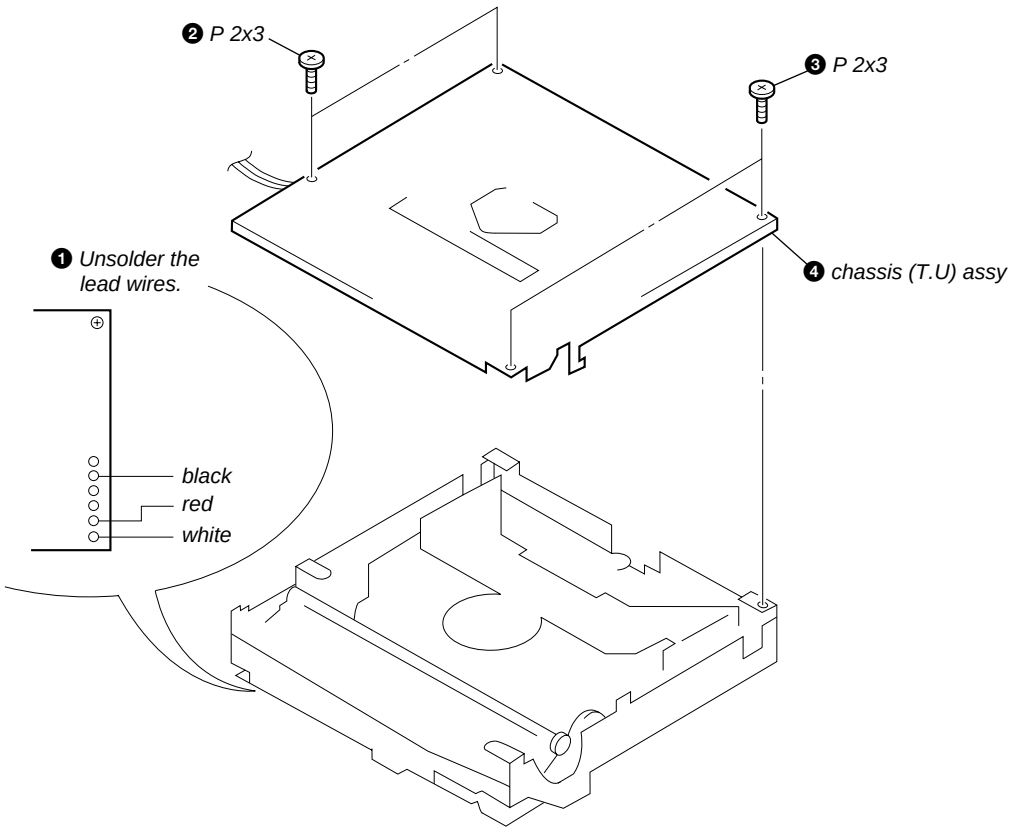
2-3. MAIN BOARD



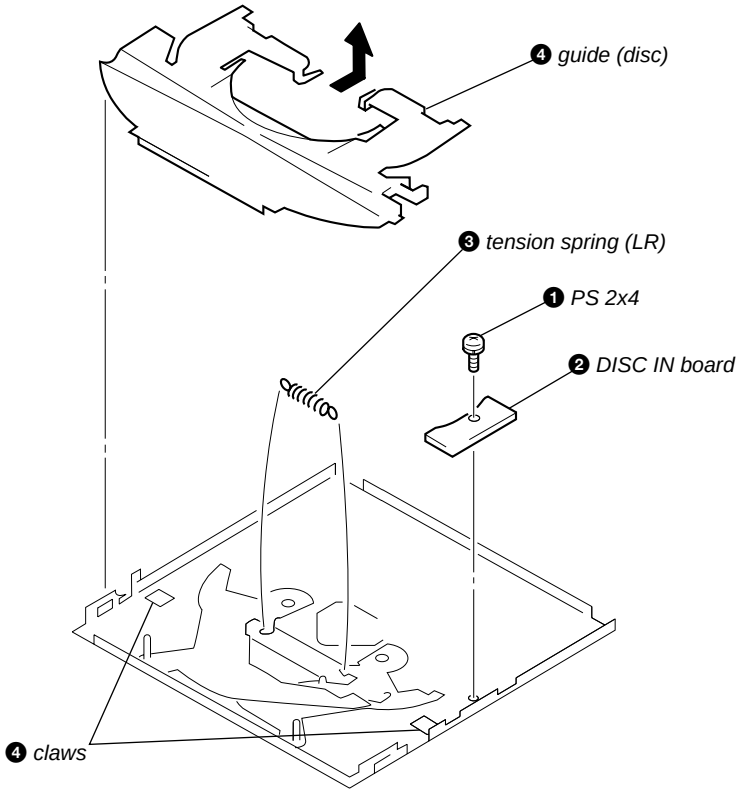
2-4. HEAT SINK



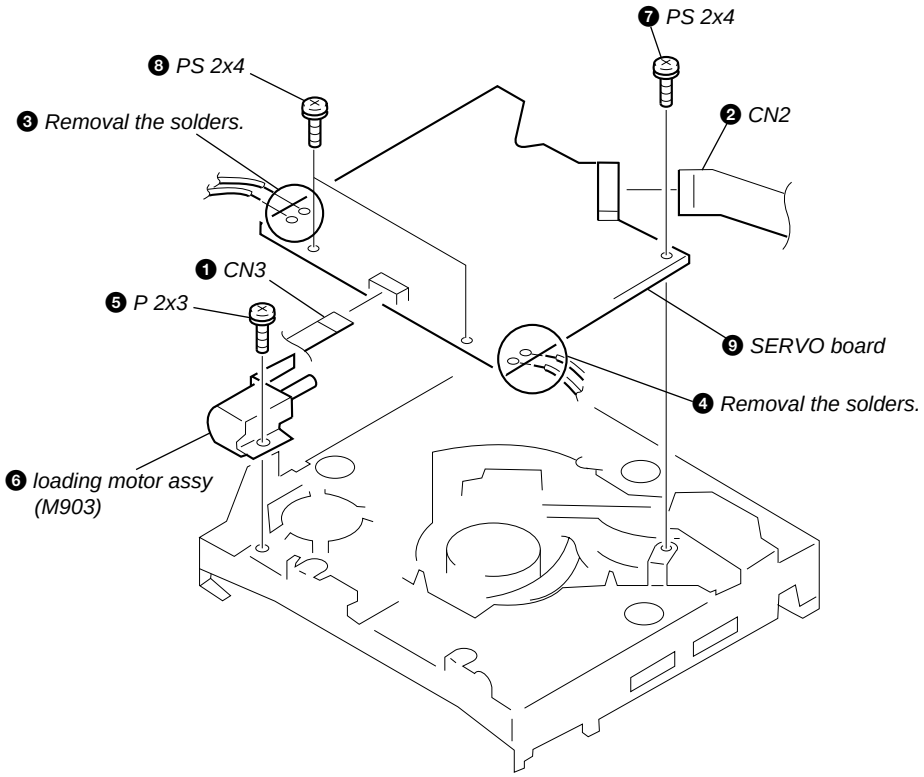
2-5. CHASSIS (T.U) ASSY



2-6. DISC IN BOARD



2-7. SERVO BOARD



2-8. ARM ROLLER ASSY

• When installing, take note of the positions arm (roller) and washers. (Fig. 1)

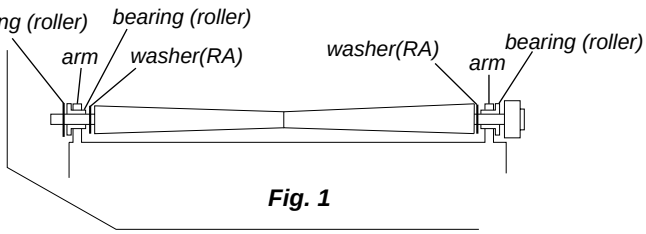
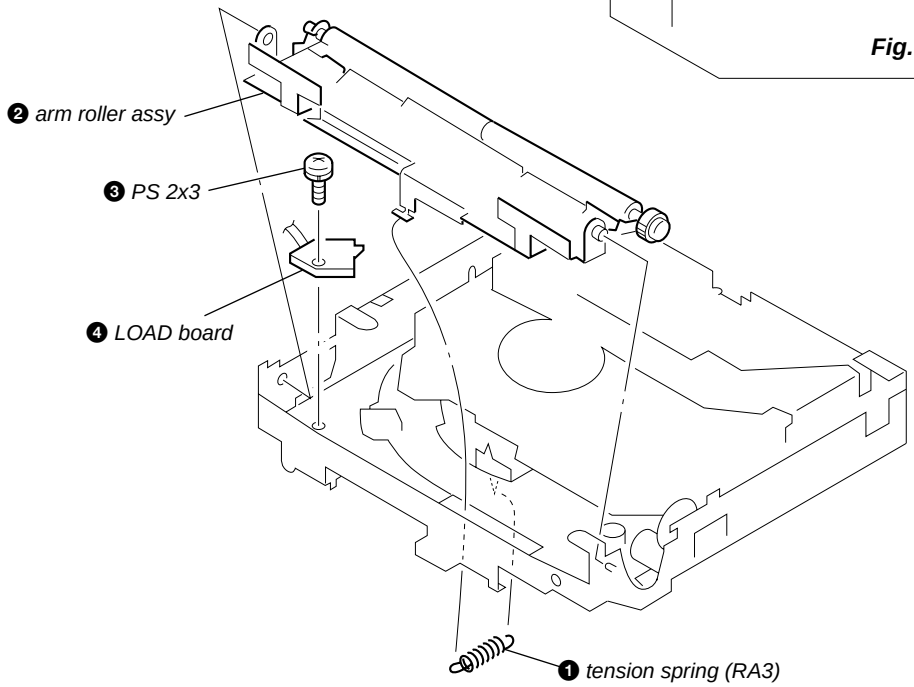
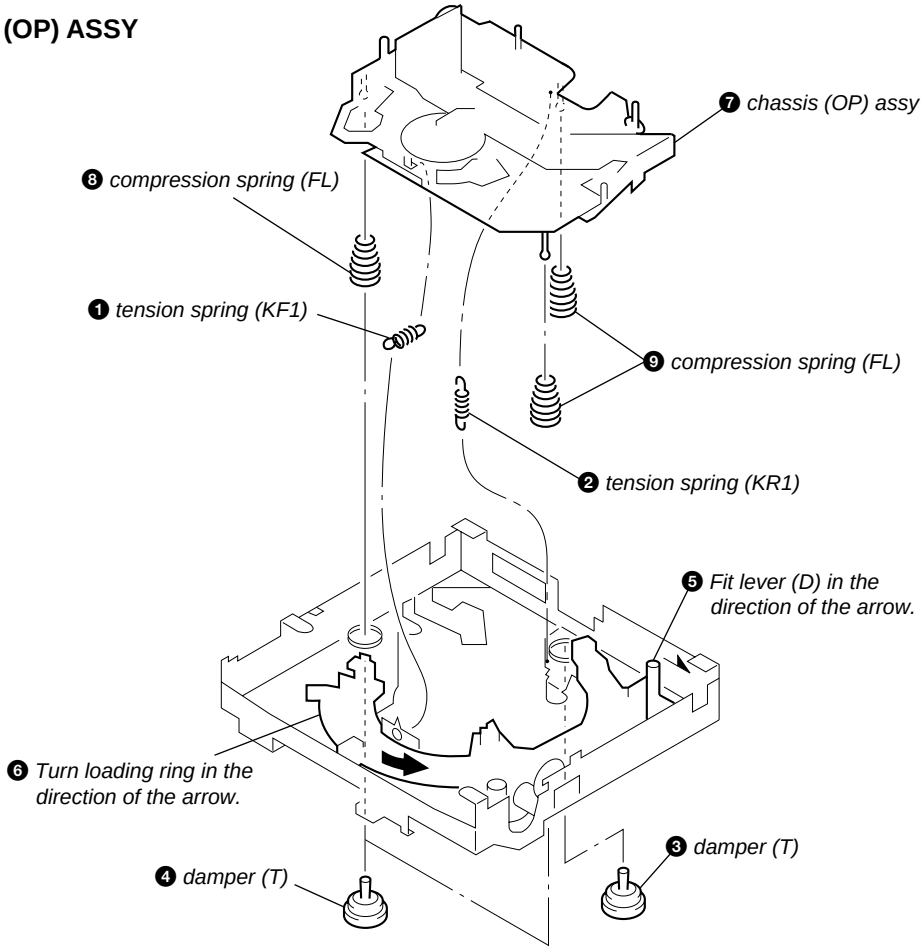


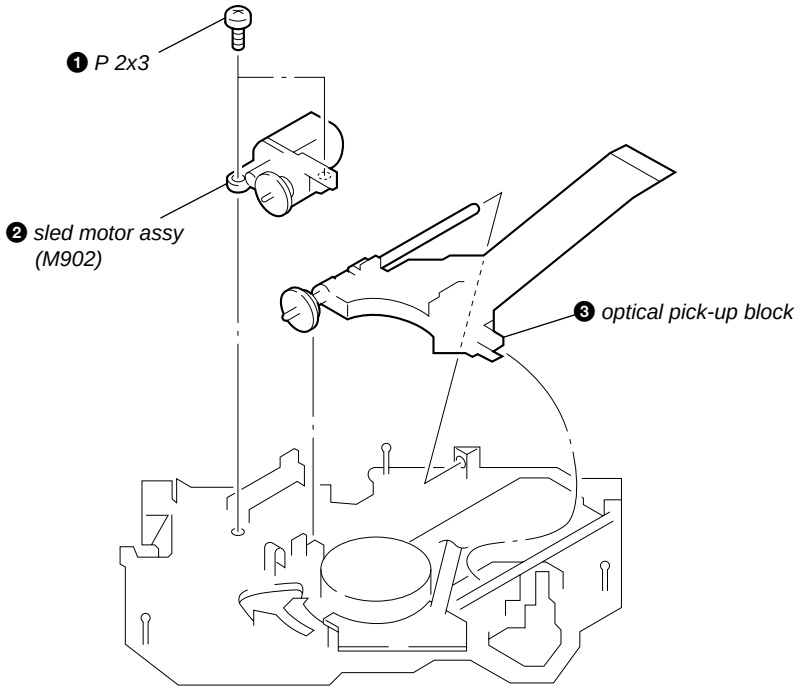
Fig. 1



2-9. CHASSIS (OP) ASSY


❼ chassis (OP) assy
❽ compression spring (FL)
❶ tension spring (KF1)
❾ compression spring (FL)
❷ tension spring (KR1)
❺ Fit lever (D) in the direction of the arrow.
❻ Turn loading ring in the direction of the arrow.
❸ damper (T)
❹ damper (T)

2-10. OPTICAL PICK-UP BLOCK



SECTION 3
DIAGRAMS

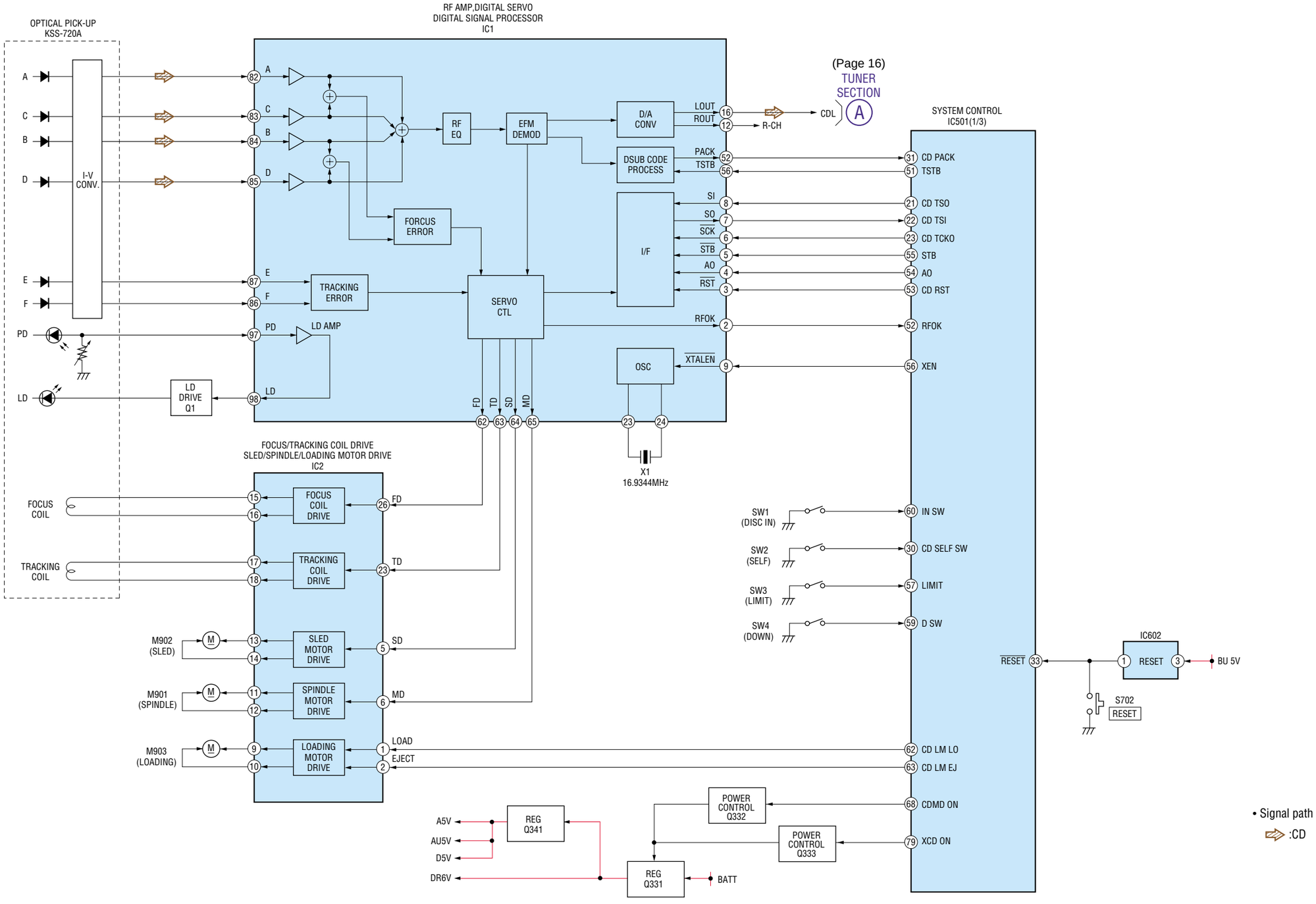
3-1. IC PIN DESCRIPTION

• IC501 MN101C49KTD (SYSTEM CONTROL)

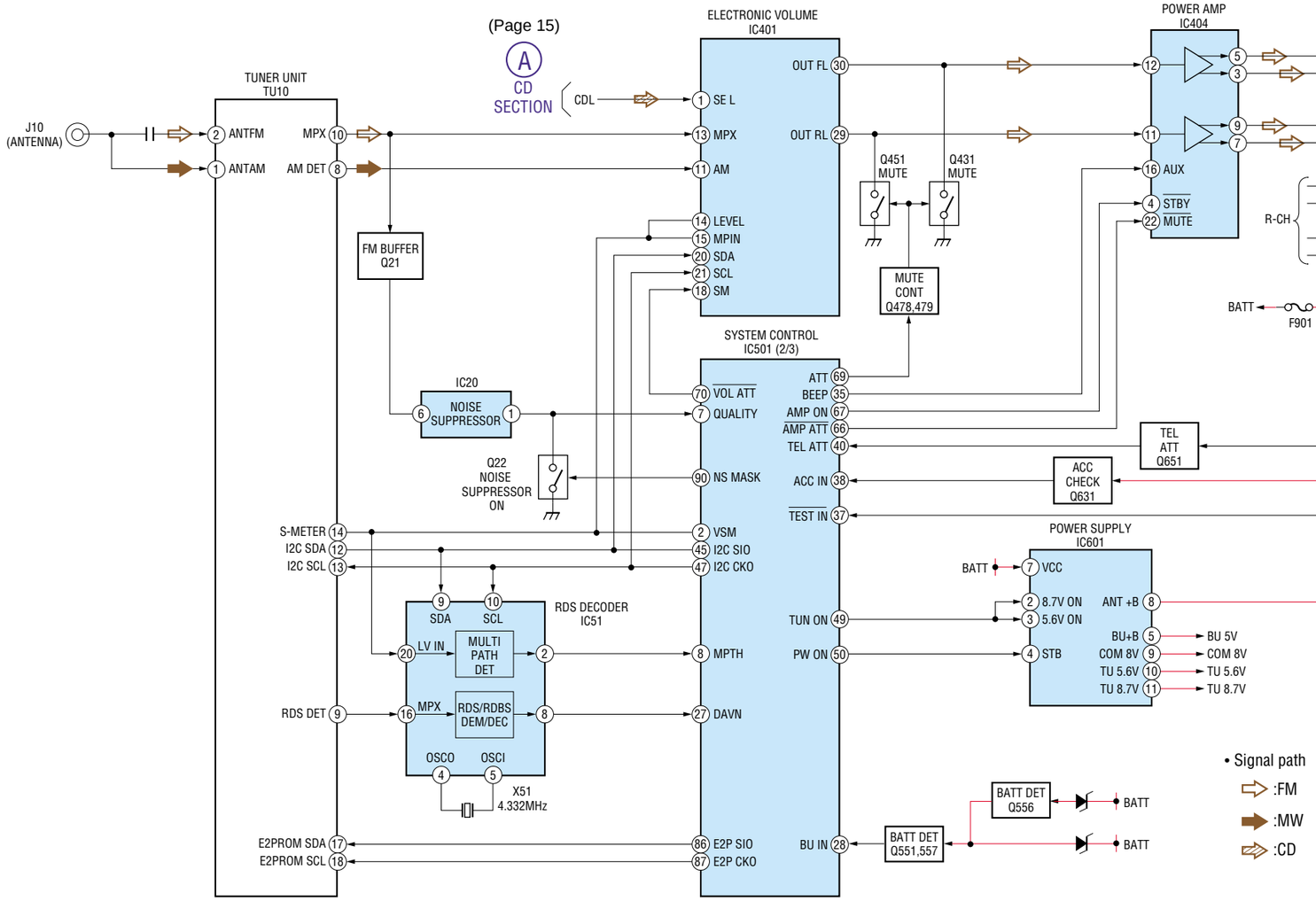
Pin No.	Pin Name	I/O	Pin Description
1	VREF–	—	REF voltage – for A/D converter
2	VSM	I	S-meter voltage detection input
3	NIL	—	Not used. (Connect to ground in this set.)
4	KEY IN1	I	Key input 1
5	KEY IN0	I	Key input 0
6	RC IN0	I	Rotary commander input 0
7	QUALITY	I	Noise detection input
8	MPTH	I	Tuner multi-pass detection input
9	NIL	—	Not used. (Connect to ground in this set.)
10	VREF+	—	REF voltage + for A/D converter (+5 V)
11	VDD	—	Power supply pin (+5 V)
12	OSC OUT	O	Oscillator output (18.432 MHz)
13	OSC IN	I	Oscillator input (18.432 MHz)
14	VSS	—	Ground
15	X IN	I	Oscillator input (32.768 kHz)
16	X OUT	O	Oscillator output (32.768 kHz)
17	MMOD	—	Mode selector (Connect to ground in this set.)
18	LCD SO	O	LCD serial data output
19	LCD CE	O	LCD chip enable output
20	LCD CKO	I	LCD serial clock input
21	CD TSO	O	CD text serial data output
22	CD TSI	I	CD text serial data input
23	CD TCKO	O	CD text serial clock output
24	NIL	—	Not used. (Open)
25	NIL	—	Not used. (Open)
26	KEY ACK	I	Key acknowledge detection input
27	DAVN	I	RDS data block sync. detection input
28	BU IN	I	Back-up power detection input
29	NIL	I	Not used. (Connect to ground in this set.)
30	CD SELFSW	I	CD self SW input
31	CD PACK	I	CD pack sync. signal input
32	NIL	—	Not used. (Connect to ground in this set.)
33	RESET	I	Reset input
34	NIL	—	Not used. (Connect to ground in this set.)
35	BEEP	O	Beep output
36	NIL	—	Not used. (Open)
37	TEST IN	I	Test mode detection input
38	ACC IN	I	Accessory power detection input
39	NIL	—	Not used. (Open)
40	TEL ATT	I	Telephone attenuate detection input
41	NIL	—	Not used. (Connect to VDD in this set.)
42	UNI SO	O	SONY BUS data output
43	UNI SI	I	SONY BUS data input
44	UNI CKO	O	SONY BUS clock output
45	I2C SIO	I/O	I2C BUS serial data input/output
46	NIL	—	Not used. (Open)
47	I2C CKO	O	I2C BUS serial clock output
48	NIL	—	Not used. (Open)
49	TUN ON	O	Tuner power control output
50	PW ON	O	System power control output
51	CD TSTB	O	CD text strobe output

Pin No.	Pin Name	I/O	Pin Description
52	CD RFOK	I	CD RFOK signal input
53	CD XRST	O	CD reset signal output
54	CD A0	O	CD command/parameter signal input
55	CD STB	O	CD strobe signal output
56	CD XTAL EN	O	CD crystal oscillator control output
57	CD LIMIT	I	CD limit SW input
58	CD PH1	I	CD photo-sensor 1 input
59	CD DSW	I	CD down SW input
60	CD INSW/PH2	I	CD disc-in SW input
61	NIL	—	Not used. (Connect to VDD in this set.)
62	CD LM LO	O	Loading motor control output (Loading direction)
63	CD LM EJ	O	Loading motor control output (Eject direction)
64	NIL	—	Not used. (Open)
65	NIL	—	Not used. (Open)
66	AMP ATT	O	Power amplifier attenuator control output
67	AMP ON	O	Power amplifier standby control output
68	CD MD ON	O	CD mechanism power control output
69	ATT	O	System attenuate control output
70	VOL ATT	O	Electronic volume attenuate control output
71	NIL	—	Not used. (Open)
72	NIL	—	Not used. (Open)
73	NIL	—	Not used. (Open)
74	NIL	—	Not used. (Open)
75	NIL	—	Not used. (Open)
76	NIL	—	Not used. (Connect to ground in this set.)
77	NIL	—	Not used. (Connect to ground in this set.)
78	NIL	—	Not used. (Open)
79	CD ON	O	CD power control output
80	NIL	—	Not used. (Open)
81	NIL	—	Not used. (Open)
82	NIL	—	Not used. (Open)
83	NIL	—	Not used. (Open)
84	NIL	—	Not used. (Open)
85	NIL	—	Not used. (Open)
86	EE SIO	I/O	EEPROM serial data input/output
87	EE CKO	O	EEPROM serial clock output
88	NIL	—	Not used. (Open)
89	FLASH W	I	Flash write input
90	NS MASK	O	Noise detection output
91	XKEY ON	O	Key power control output
92	NIL	—	Not used. (Open)
93	ILL ON	O	Illumination power control output
94	NOSE SW	I	Nose detection SW input
95	DAVSS	—	Ground for D/A converter
96	NIL	—	Not used. (Open)
97	NIL	—	Not used. (Open)
98	RC IN1	I	Rotary commander input 1
99	NIL	—	Not used. (Connect to ground in this set.)
100	DAVDD	—	D/A converter power supply pin (+5 V)

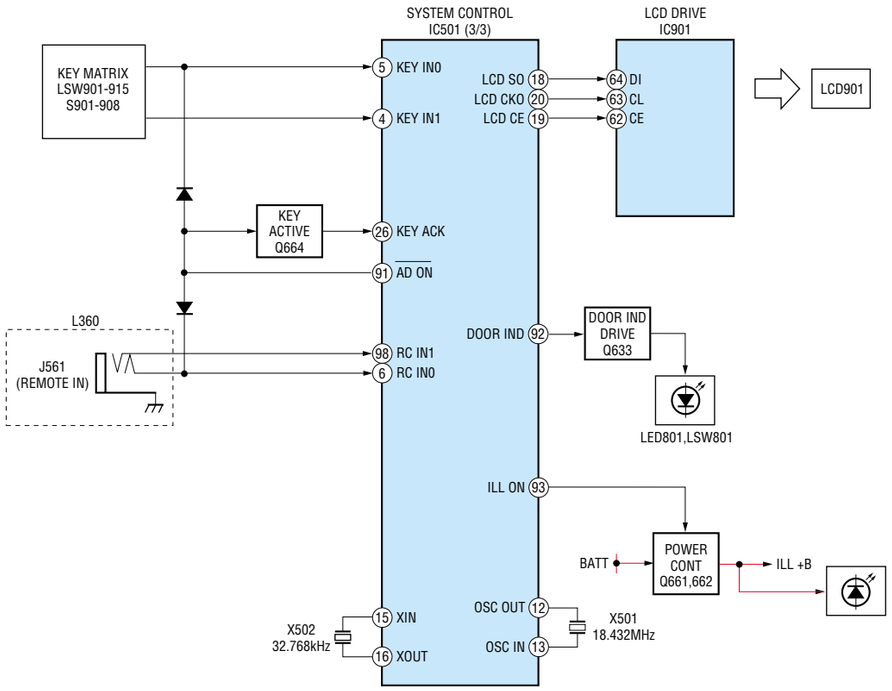
3-2. BLOCK DIAGRAM — CD SECTION —



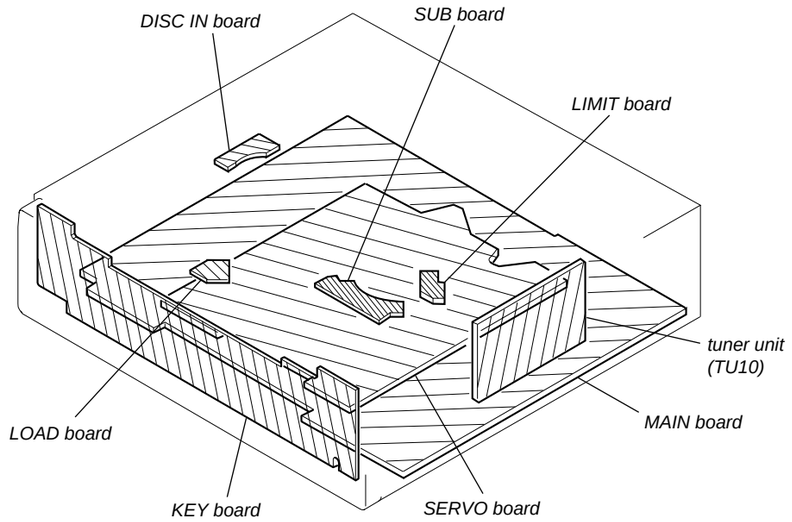
3-3. BLOCK DIAGRAM — TUNER SECTION —



3-4. BLOCK DIAGRAM — DISPLAY SECTION —



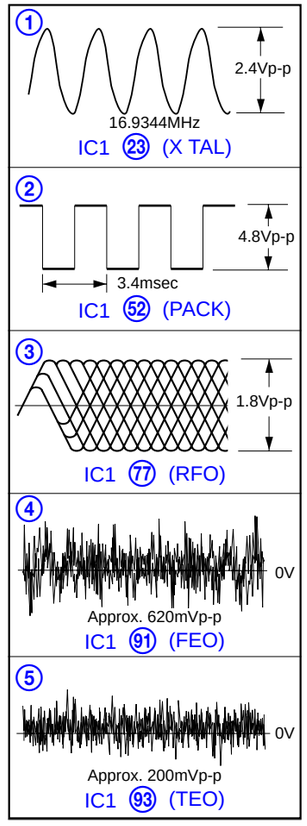
3-5. CIRCUIT BOARDS LOCATION



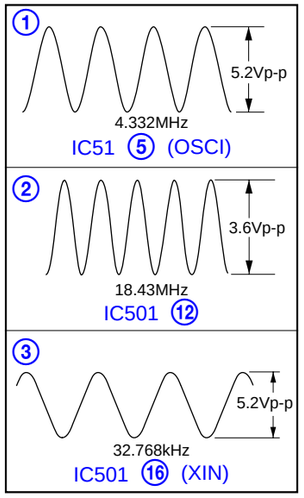
- **Waveforms**

— Servo Board —

(MODE: CD PLAY)



— Main Board —



THIS NOTE IS COMMON FOR PRINTED WIRING BOARDS AND SCHEMATIC DIAGRAMS.
(In addition to this, the necessary note is printed in each block.)

for schematic diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- % : indicates tolerance.
- △ : internal component.
- ▭ : panel designation.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ▬ : B+ Line.
- Power voltage is dc 14.4V and fed with regulated dc power supply from ACC and BATT cords.
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  - ⇨ : FM
  - ➡ : MW
  - ⇨ : CD

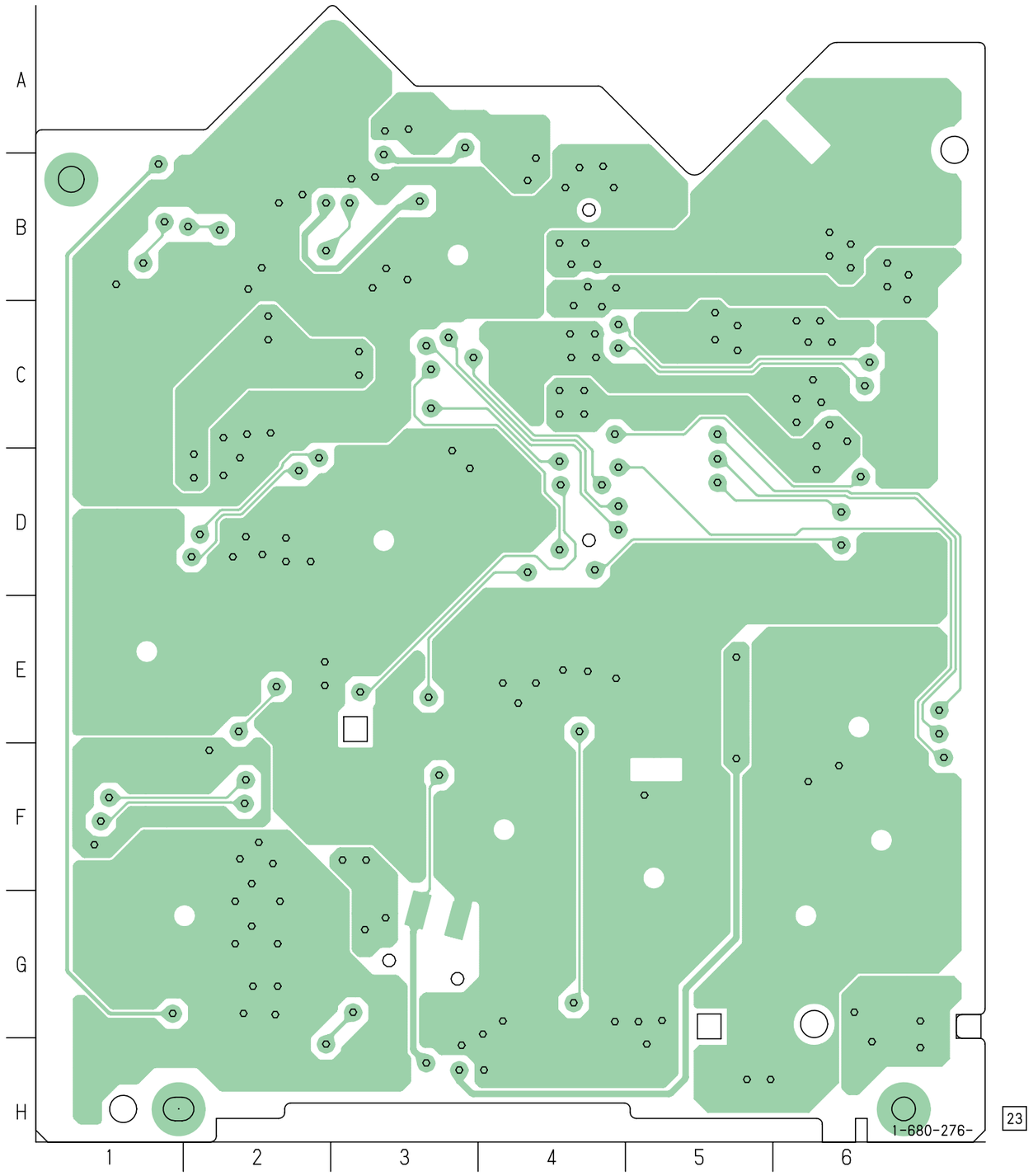
for printed wiring boards:

- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ■ : parts mounted on the conductor side.
- ○ : Through hole.
- ▬ : Pattern from the side which enables seeing. (The other layer's patterns are not indicated.)

Caution:
Pattern face side: (Side B) Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Side A) Parts on the parts face side seen from the parts face are indicated.

3-6. PRINTED WIRING BOARDS — CD MECHANISM SECTION —

【SERVO BOARD】(SIDE B)



【SERVO BOARD】(SIDE A)

【PICK-UP FLEXIBLE BOARD】

1-676-707- 21

OPTICAL PICK-UP KSS-720A

(Page 21) 1 MAIN BOARD CNP301

【DISC IN BOARD】

【LIMIT BOARD】

【LOAD BOARD】

【SUB BOARD】

【MOTOR FLEXIBLE BOARD】 1-659-880- 11

M903 (LOADING)

M902 (SLED)

M901 (SPINDLE)

SW1 (DISC IN)

SW2 (SELF)

SW3 (LIMIT)

SW4 (DOWN)

1-659-836-

1-659-835-

1-659-837-

1-659-834-

1-680-276- 23

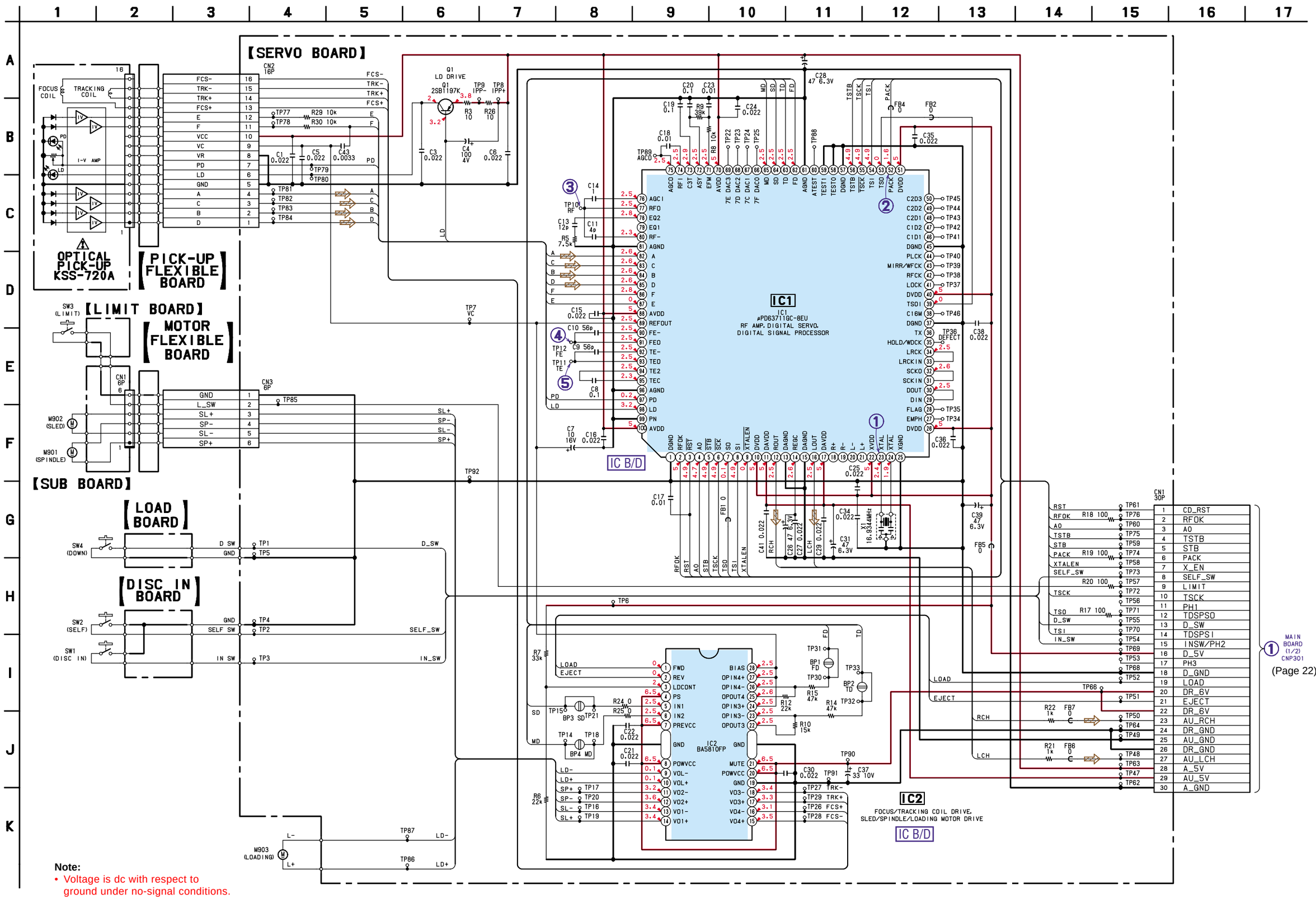
- **Semiconductor Location**

Ref. No.	Location
IC1	D-2
IC2	G-2
Q1	B-3

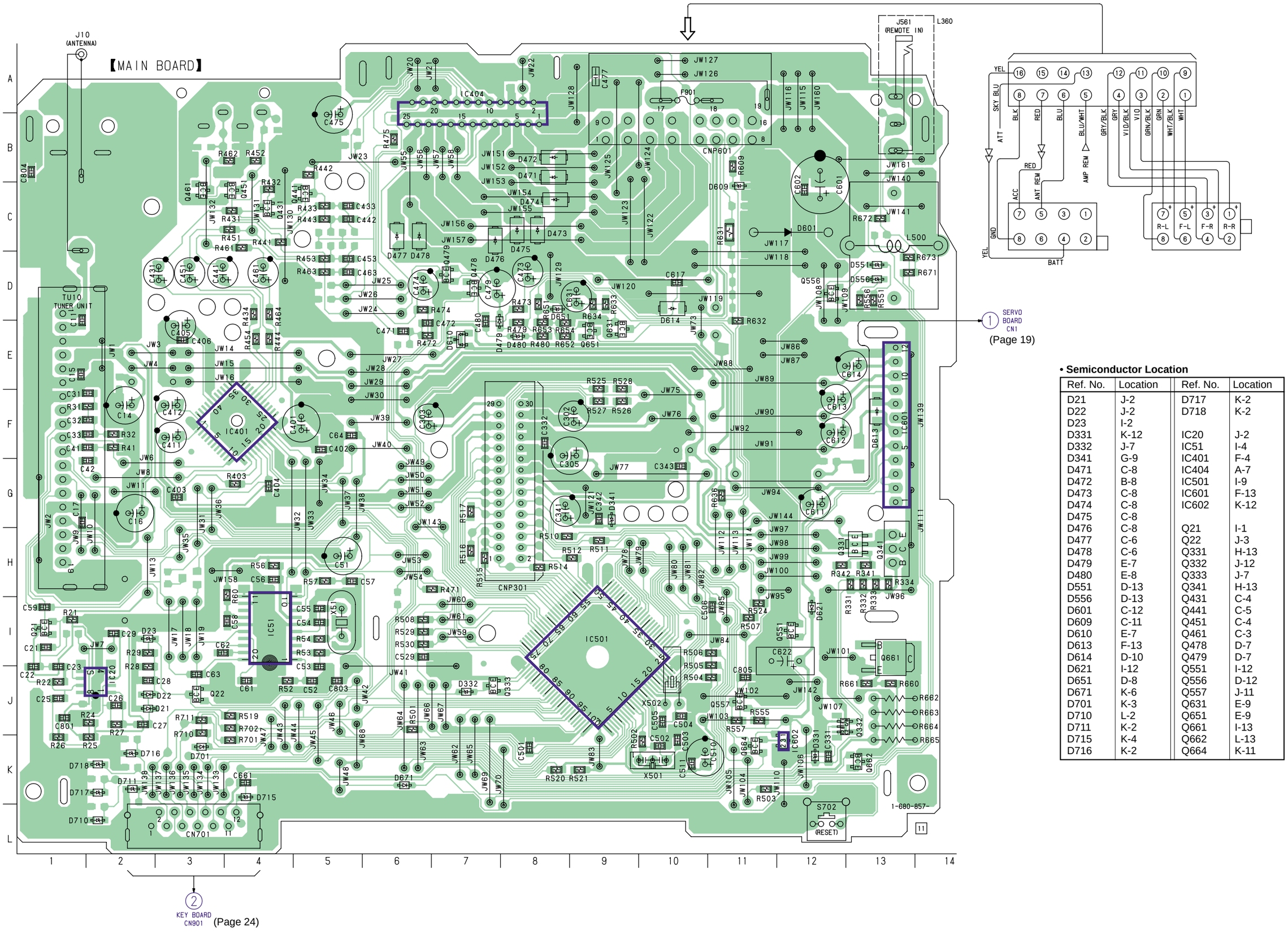
• Refer to page 17 for Waveforms.

3-7. SCHEMATIC DIAGRAM — CD MECHANISM SECTION —

• Refer to page 26 for IC Block Diagrams.



3-8. PRINTED WIRING BOARD — MAIN SECTION —



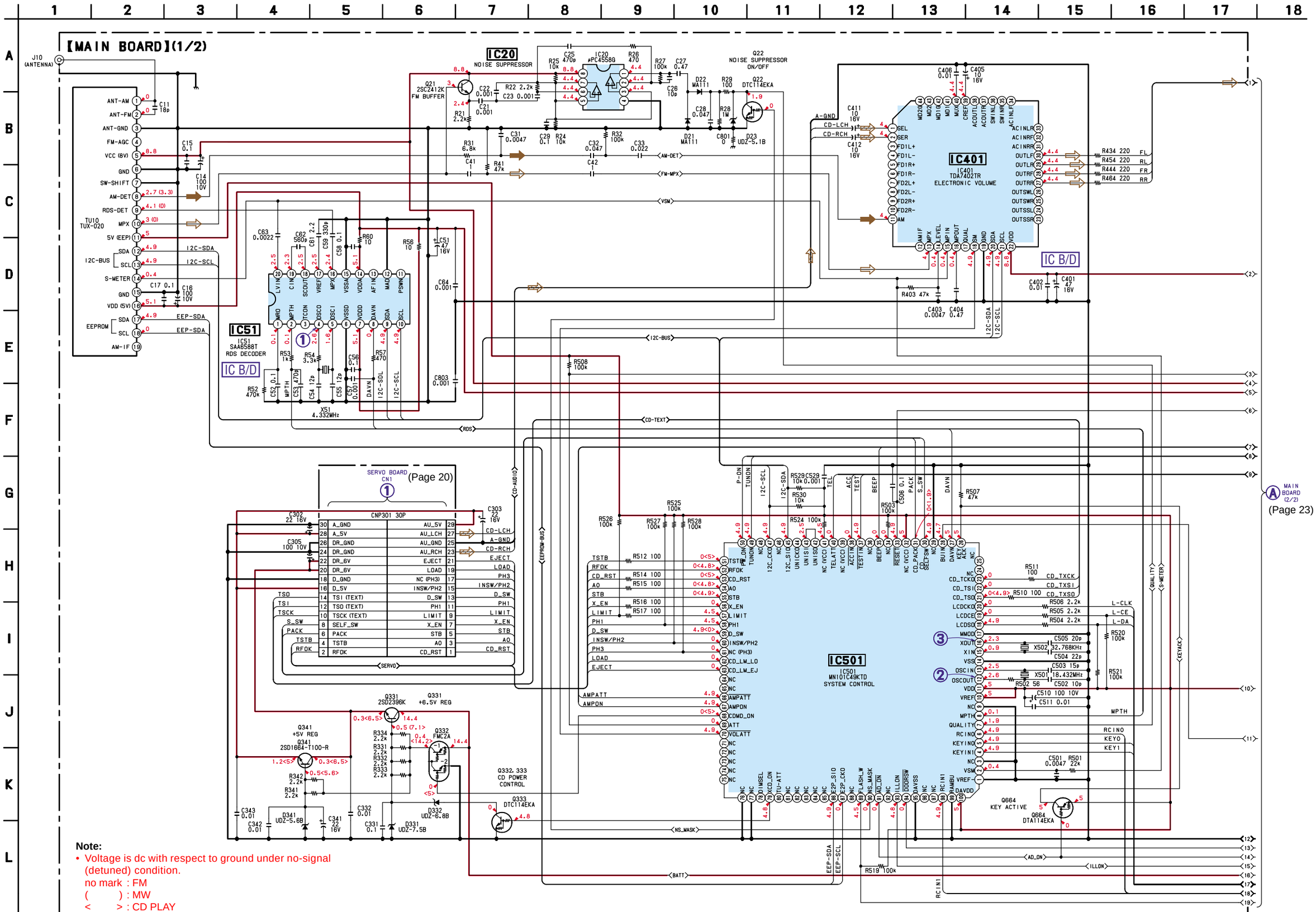
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D21	J-2	D717	K-2
D22	J-2	D718	K-2
D23	I-2		
D331	K-12	IC20	J-2
D332	J-7	IC51	I-4
D341	G-9	IC401	F-4
D471	C-8	IC404	A-7
D472	B-8	IC501	I-9
D473	C-8	IC601	F-13
D474	C-8	IC602	K-12
D475	C-8		
D476	C-8	Q21	I-1
D477	C-6	Q22	J-3
D478	C-6	Q331	H-13
D479	E-7	Q332	J-12
D480	E-8	Q333	J-7
D551	D-13	Q341	H-13
D556	D-13	Q431	C-4
D601	C-12	Q441	C-5
D609	C-11	Q451	C-4
D610	E-7	Q461	C-3
D613	F-13	Q478	D-7
D614	D-10	Q479	D-7
D621	I-12	Q551	I-12
D651	D-8	Q556	D-12
D671	K-6	Q557	J-11
D701	K-3	Q631	E-9
D710	L-2	Q651	E-9
D711	K-2	Q661	I-13
D715	K-4	Q662	L-13
D716	K-2	Q664	K-11

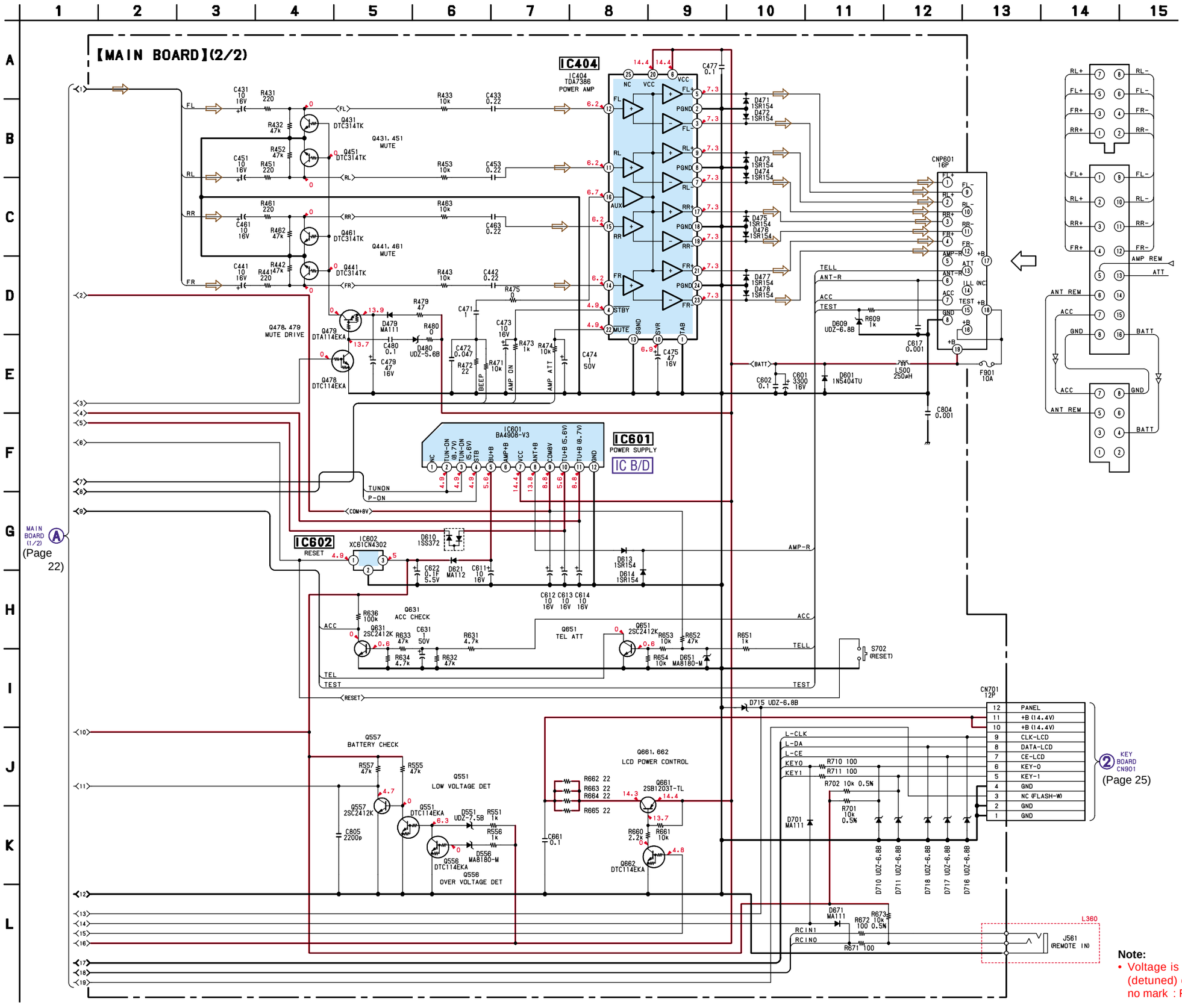
• Refer to page 17 for Waveforms.

3-9. SCHEMATIC DIAGRAM — MAIN SECTION (1/2) —

• Refer to page 26 for IC Block Diagrams.



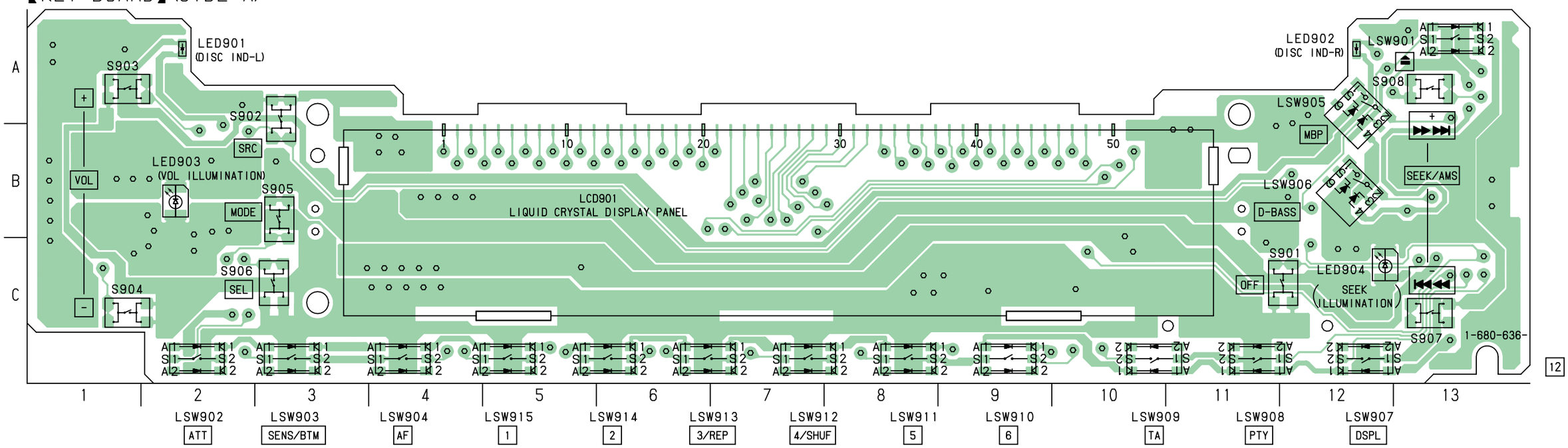
3-10. SCHEMATIC DIAGRAM — MAIN SECTION (2/2) — • Refer to page 26 for IC Block Diagrams.



Note:
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

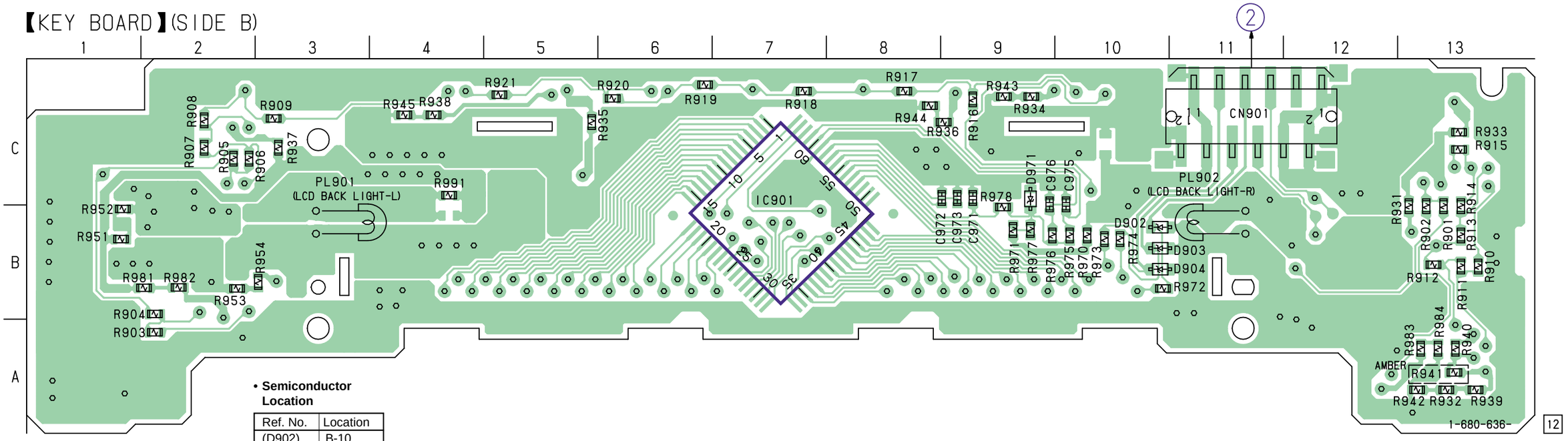
3-11. PRINTED WIRING BOARD — KEY SECTION —

【KEY BOARD】(SIDE A)



(Page 21)

【KEY BOARD】(SIDE B)

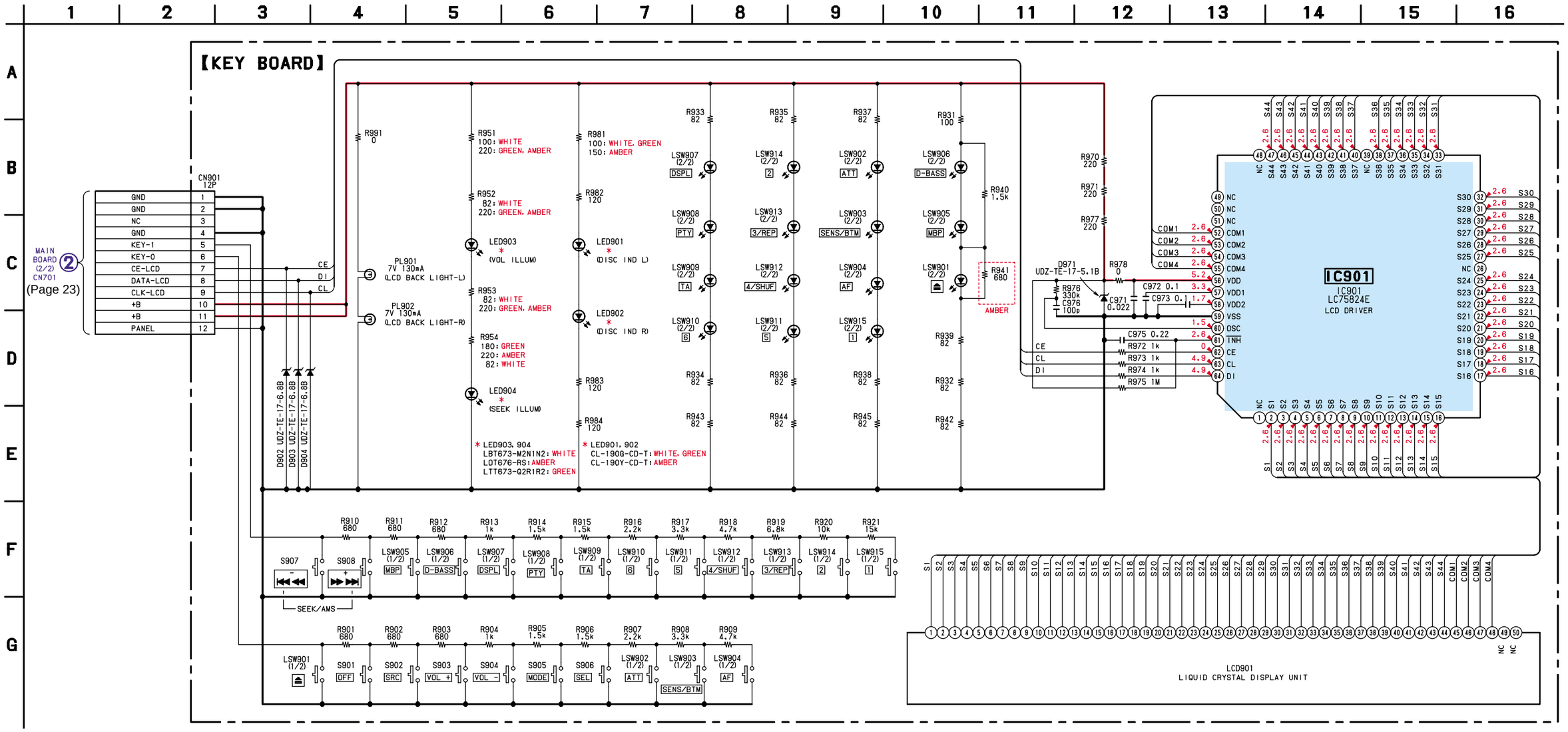


- **Semiconductor Location**

Ref. No.	Location
(D902)	B-10
(D903)	B-10
(D904)	B-10
(D971)	C-9
(IC901)	C-7
LED901	A-2
LED902	A-12
LED903	B-2
LED904	C-12

( ) : SIDE B

3-12. SCHEMATIC DIAGRAM — KEY SECTION —

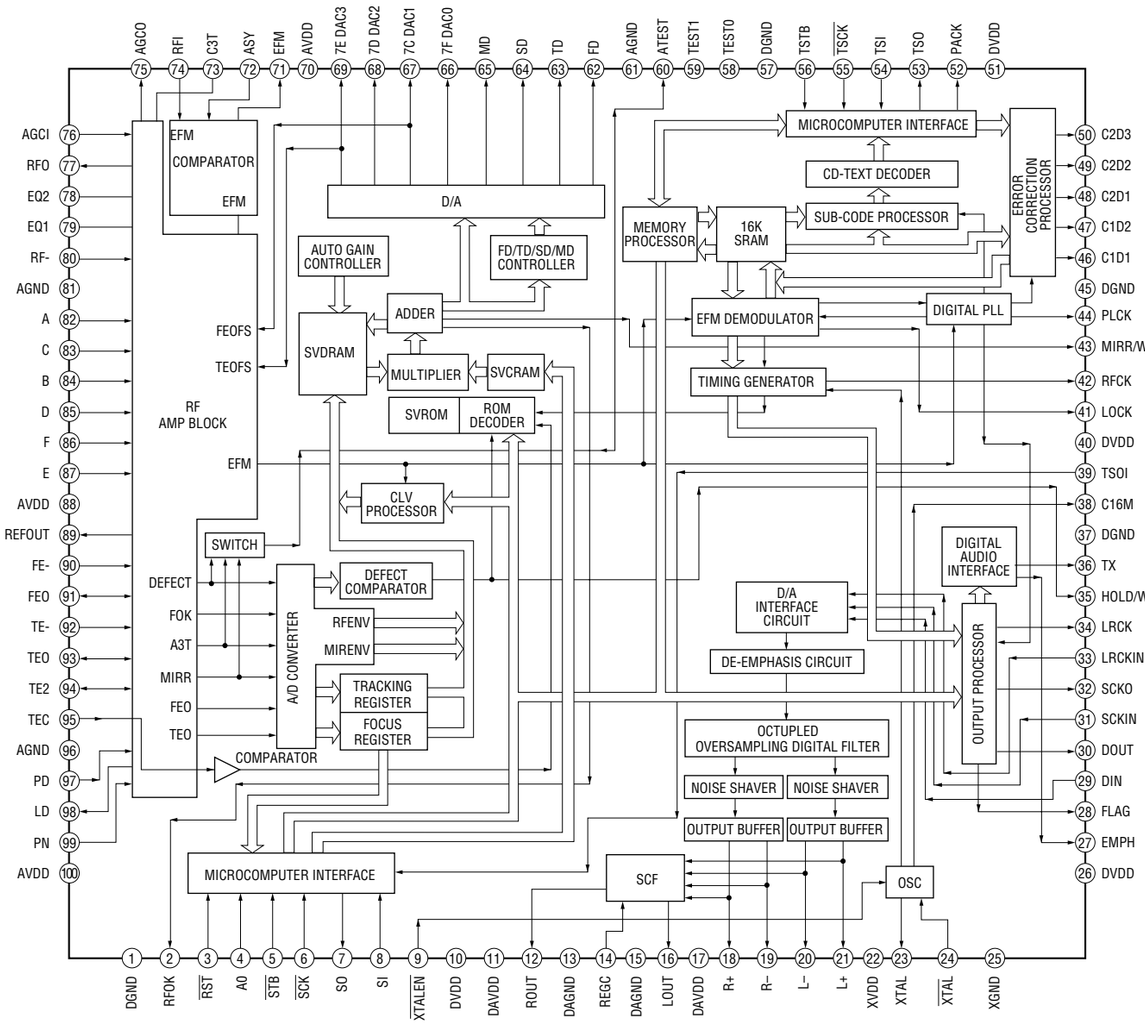


Note:

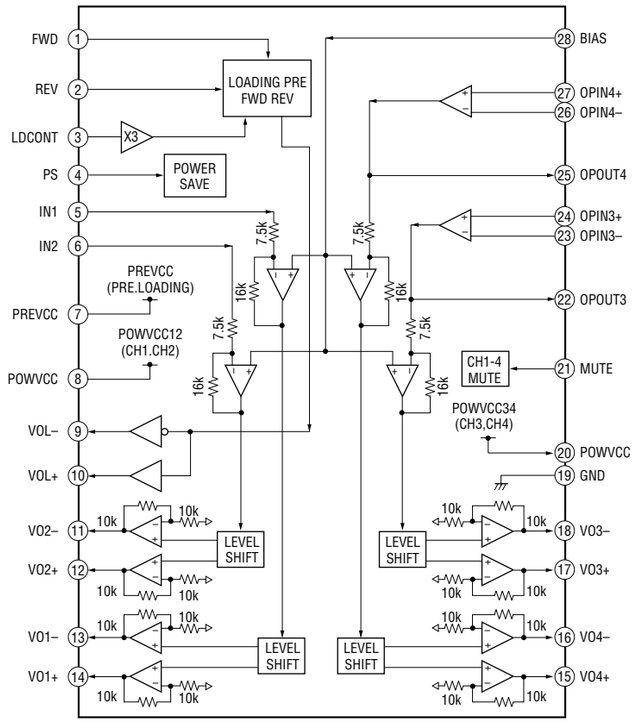
- Voltage is dc with respect to ground under no-signal (detuned) condition.
  no mark : FM

• IC Block Diagrams

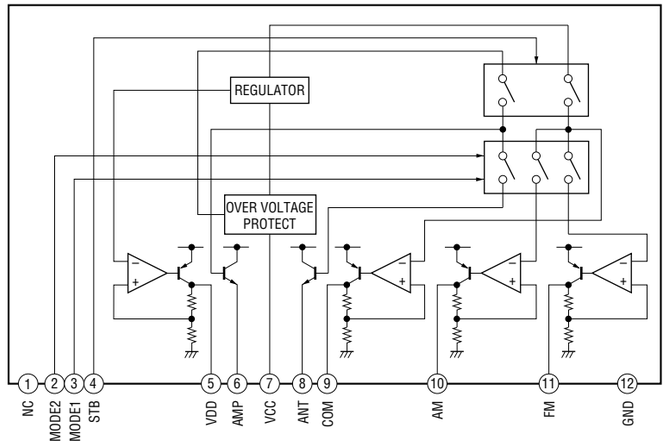
IC1 µPD63711GC-8EB



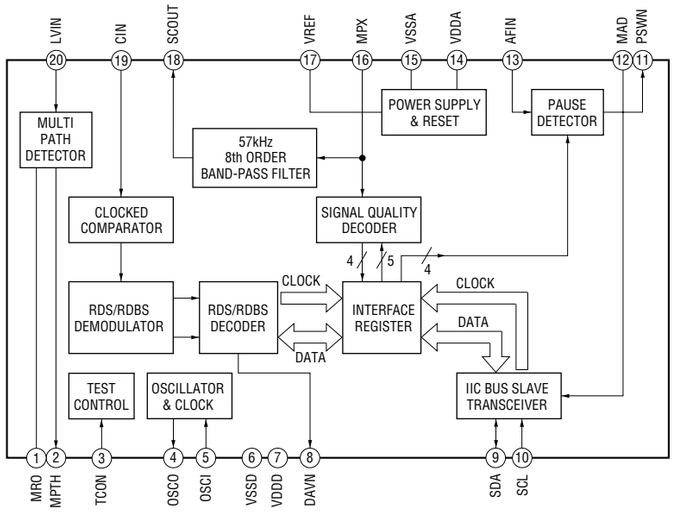
IC2 BA5810FP



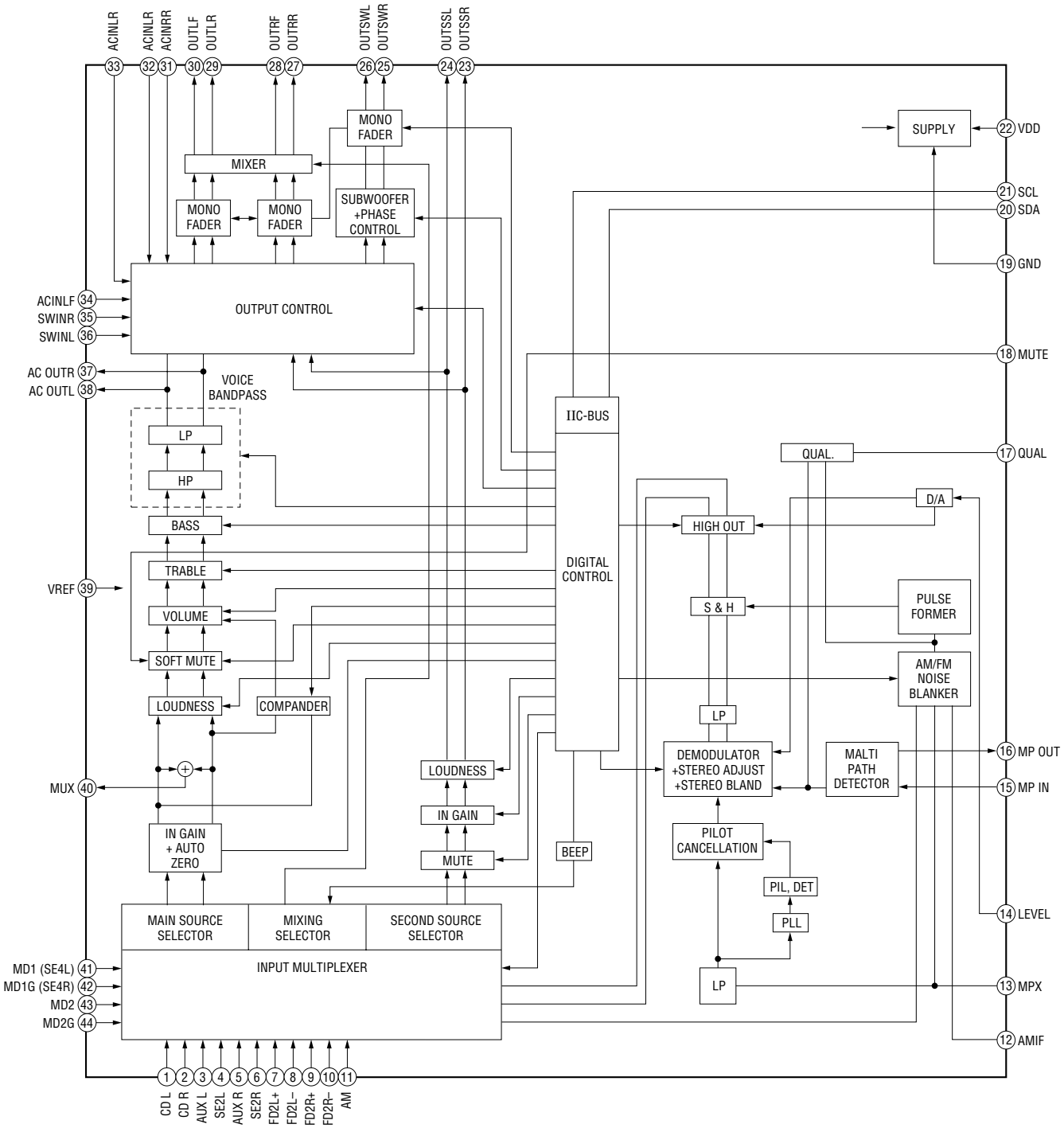
IC601 BA4908-V3



IC51 SAA6588T



IC401 TDA7402TR



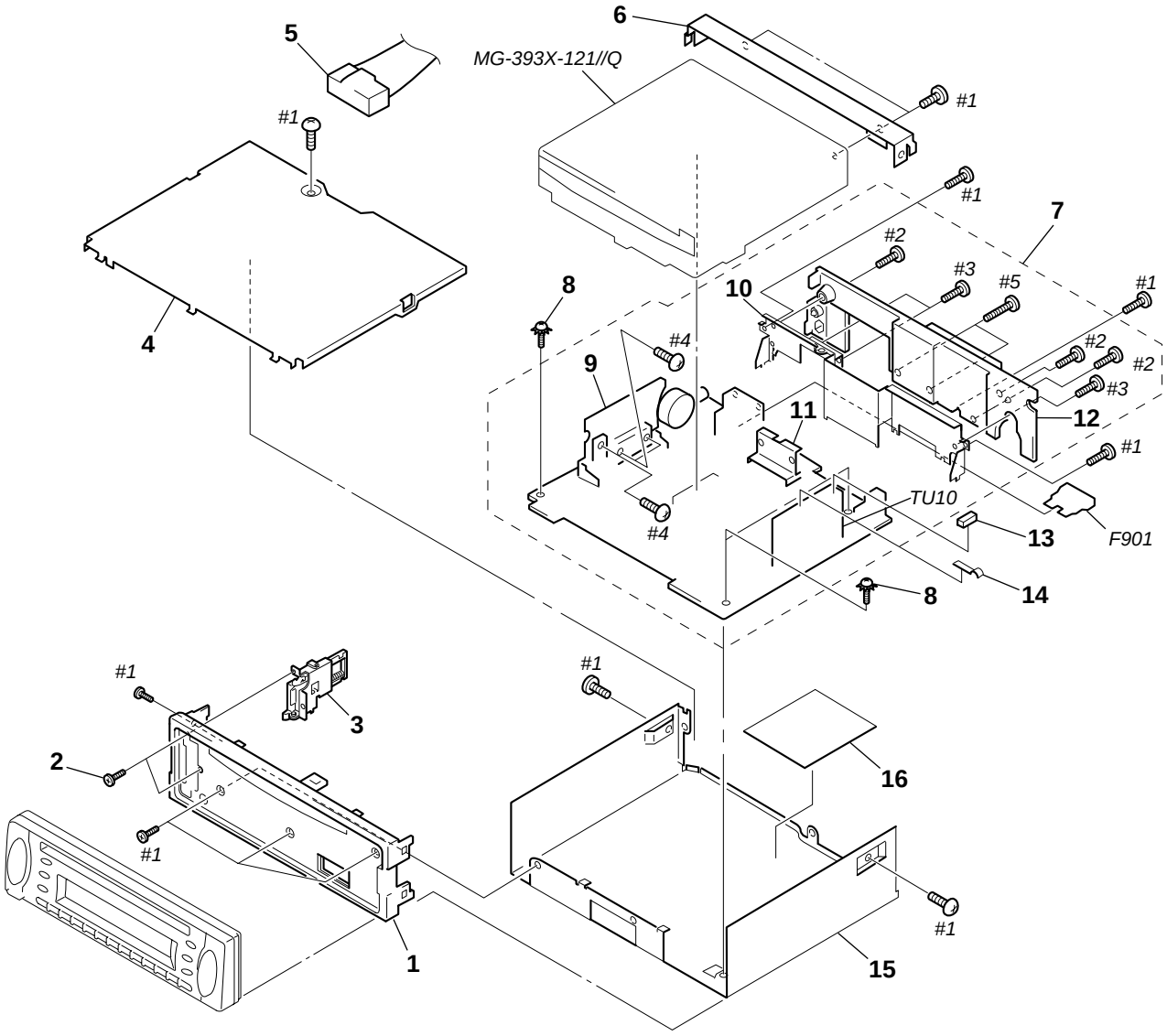
SECTION 4
EXPLODED VIEWS

NOTE:
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- -XX and -X mean standardized parts, so they may have some difference from the original one.

- Color Indication of Appearance Parts
  Example :
  KNOB, BALANCE (WHITE) ... (RED)
  ↑ Parts Color ↑ Cabinet's Color
- Accessories and packing materials and hardware (# mark) list are given in the last of this parts list.

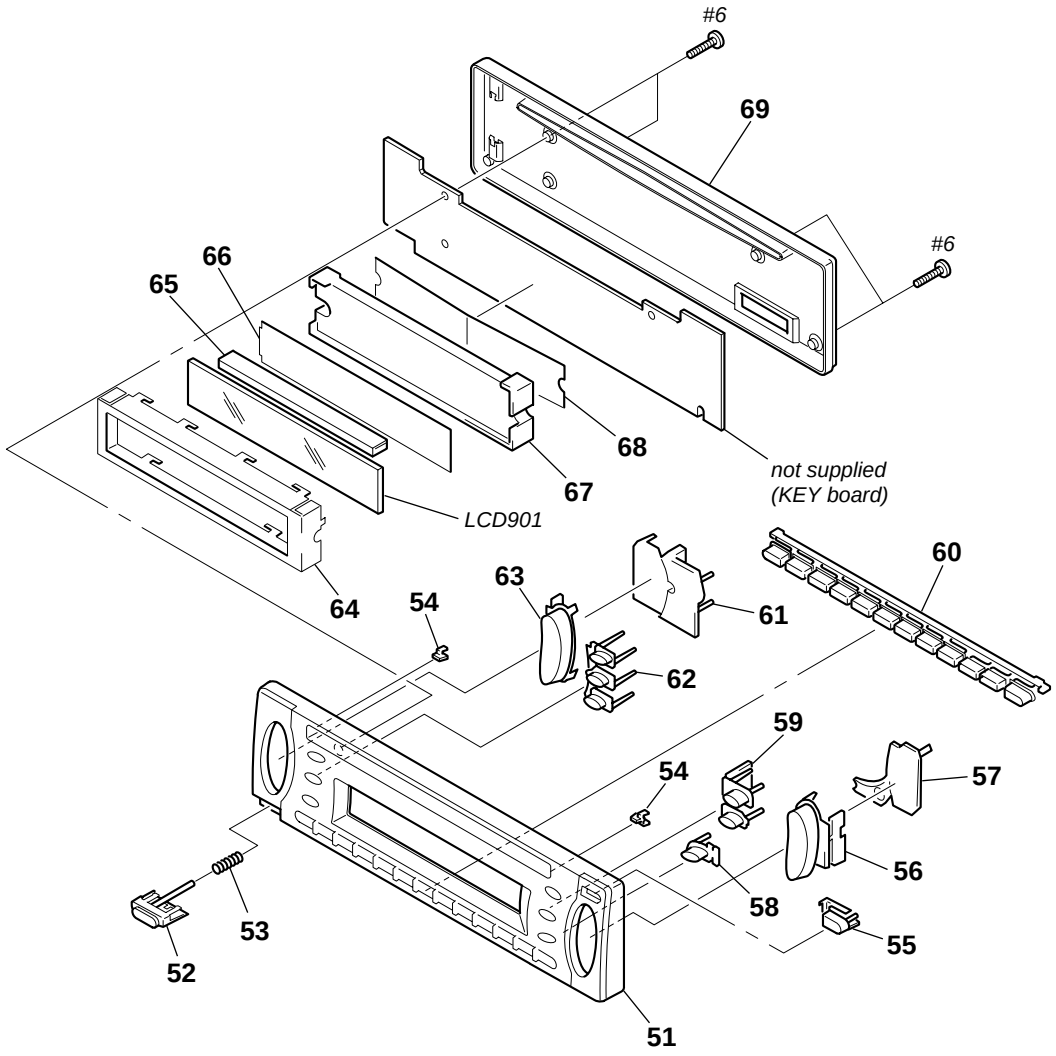
The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

4-1. CHASSIS SECTION



Ref. No.	Part No.	Description	Remark
1	X-3380-162-1	PANEL SUB ASSY, SUB	
2	3-042-244-11	SCREW (T)	
3	X-3379-876-1	LOCK ASSY (S)	
* 4	3-223-782-01	COVER	
5	1-776-527-81	CORD (WITH CONNECTOR) (ISO) (POWER)	
* 6	3-041-012-01	BRACKET (CD)	
* 7	A-3326-804-A	MAIN BOARD, COMPLETE (L360)	
* 7	A-3326-805-A	MAIN BOARD, COMPLETE (L350)	
8	3-376-464-11	SCREW (+PTT 2.6X6), GROUND POINT	
* 9	3-225-136-01	HEAT SINK (REG)	
* 10	3-225-271-01	CHASSIS (BACK)	
* 11	3-040-998-01	BRACKET (IC)	
* 12	3-225-135-01	HEAT SINK	
* 13	3-045-877-01	CUSHION (TU)	
* 14	3-045-878-01	PLATE (TU), GROUND	
* 15	3-225-133-01	CHASSIS	
16	3-231-821-01	INSULATOR	
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A	
TU10	A-3282-061-A	TUNER UNIT (TUX-020)	

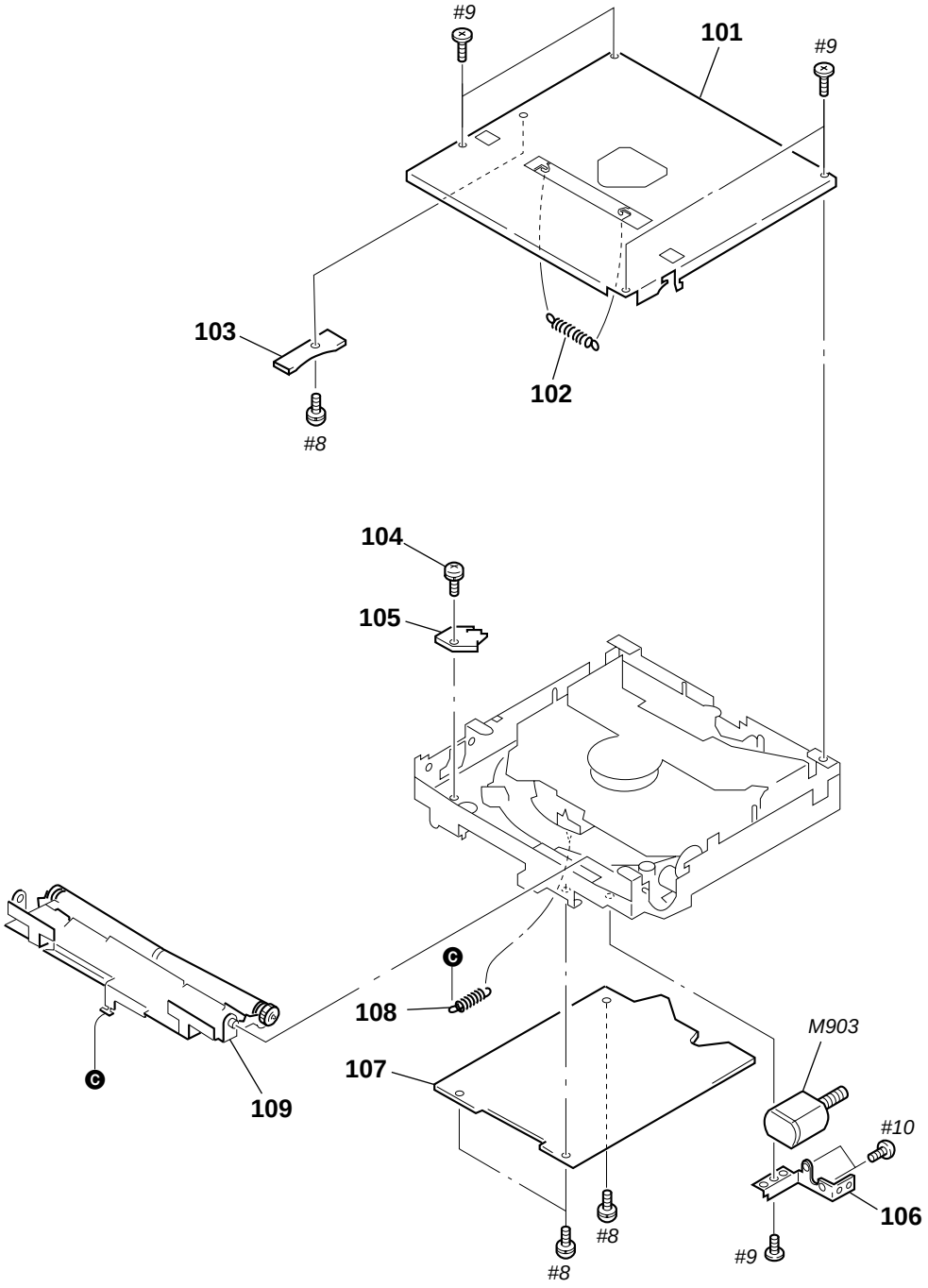
4-2. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	X-3380-164-1	PANEL SUB ASSY, FRONT (L360)	
51	X-3380-212-1	PANEL SUB ASSY, FRONT (L350)	
52	3-225-125-01	BUTTON (RELEASE/CE)	
53	3-224-900-01	SPRING (RELEASE)	
* 54	3-225-126-01	PLATE (CD), LIGHT GUIDE	
55	3-225-124-01	BUTTON (EJECT/CE)	
56	3-225-119-01	BUTTON (S/A) (L350)	
56	3-225-119-11	BUTTON (S/A) (L360)	
* 57	3-225-128-01	PLATE (R), LIGHT GUIDE	
58	3-225-122-01	BUTTON (OFF)	
59	3-225-121-01	BUTTON (R/CE)	
60	3-225-123-01	BUTTON (PRESET/CE)	

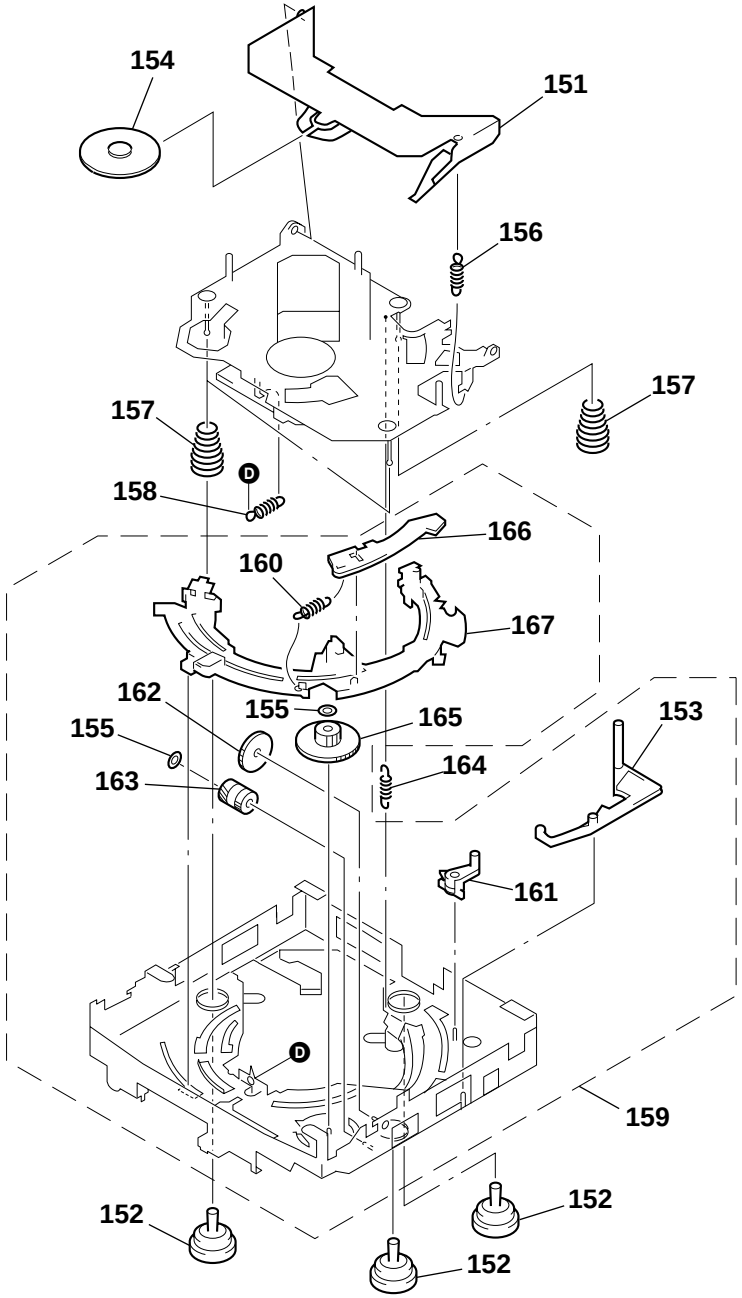
Ref. No.	Part No.	Description	Remark
* 61	3-225-127-01	PLATE (L), LIGHT GUIDE	
62	3-225-120-01	BUTTON (L/CE)	
63	3-225-118-01	BUTTON (+/–) (L350)	
63	3-225-118-11	BUTTON (+/–) (L360)	
* 64	3-225-132-01	PLATE (LCD), GROUND	
65	1-694-781-11	CONDUCTIVE BOARD, CONNECTION	
* 66	3-225-131-01	ILLUMINATOR (LCD) (L350)	
66	3-225-131-11	ILLUMINATOR (LCD) (L360)	
* 67	3-225-129-01	PLATE (LCD), LIGHT GUIDE	
* 68	3-225-130-01	REFLECTOR (LCD)	
69	3-225-114-01	PANEL, FRONT BACK	
LCD901	1-804-299-11	DISPLAY PANEL, LIQUID CRYSTAL	

4-3. CD MECHANISM SECTION (1)
(MG-393X-121//Q)



Ref. No.	Part No.	Description	Remark
101	A-3315-247-B	CHASSIS (T.U) ASSY	
102	3-931-909-01	SPRING (LR), TENSION	
* 103	1-659-836-11	DISC IN BOARD	
104	3-338-737-01	SCREW (2X3), +PS	
* 105	1-659-837-11	LOAD BOARD	
* 106	3-039-629-01	BRACKET (MOTOR)	
* 107	A-3283-047-A	SERVO BOARD, COMPLETE	
108	3-225-784-01	SPRING (RA3), TENSION	
109	A-3315-040-A	ROLLER ASSY, ARM	
M903	A-3315-039-A	MOTOR SUB ASSY, LD (LOADING)	

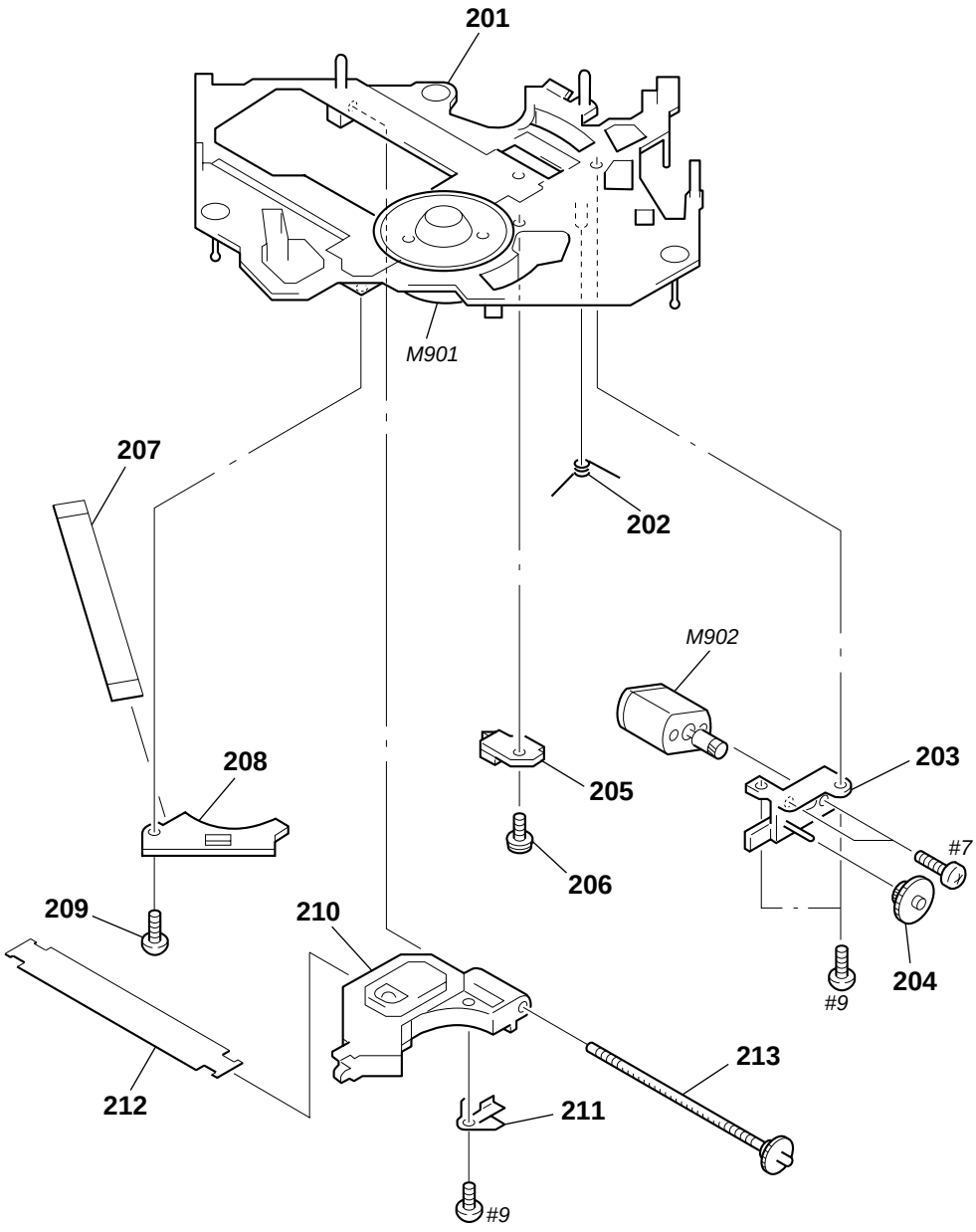
4-4. CD MECHANISM SECTION (2)
(MG-393X-121//Q)



Ref. No.	Part No.	Description	Remark
151	X-3378-956-1	ARM ASSY, CHUCKING	
152	3-931-897-61	DAMPER (T)	
153	3-039-627-01	LEVER (D)	
154	3-040-165-01	RETAINER (DISC)	
155	3-018-272-01	WASHER	
156	3-931-895-01	SPRING (CH), TENSION	
157	3-931-898-01	SPRING (FL), COMPRESSION	
158	3-032-483-01	SPRING (KF1), TENSION	
159	A-3315-243-B	CHASSIS (M) ASSY	

Ref. No.	Part No.	Description	Remark
160	3-220-180-01	SPRING (TR2), TENSION	
161	3-931-881-01	LEVER (LOCK)	
162	3-931-882-02	GEAR (MDL)	
163	3-007-537-11	WHEEL (U), WORM	
164	3-032-484-01	SPRING (KR1), TENSION	
165	3-014-727-01	WHEEL (LW), WORM	
166	3-039-626-01	LEVER (TR)	
167	3-025-418-21	RING, LOADING	

4-5. CD MECHANISM SECTION (3)
(MG-393X-121//Q)



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
201	X-3378-598-1	CHASSIS (OP) ASSY (including M901)	
202	3-043-494-01	SPRING (SL), TORSION	
203	3-040-170-01	BASE (DRIVING)	
204	3-040-419-01	GEAR (MIDWAY)	
* 205	1-659-835-12	LIMIT BOARD	
206	3-338-737-01	SCREW (2X3), +PS	
207	1-659-880-11	MOTOR FLEXIBLE BOARD	
* 208	1-659-834-11	SUB BOARD	
209	3-909-607-01	SCREW	
⚠210	8-820-103-03	PICK-UP, OPTICAL KSS-720A/K1RP	
211	3-025-743-01	SPRING (FEED), LEAF	
212	1-676-707-21	PICK-UP FLEXIBLE BOARD	
213	A-3291-669-A	SHAFT (FEED) ASSY	
M902	A-3291-674-A	MOTOR ASSY, SLED (SLED)	

SECTION 5
ELECTRICAL PARTS LIST

DISC IN | KEY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : µ, for example:
  uA.. : µA.. uPA.. : µPA..
  uPB.. : µPB.. uPC.. : µPC.. uPD.. : µPD..
- CAPACITORS
  uF : µF
- COILS
  uH : µH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description	Remark
*	1-659-836-11	DISC IN BOARD	
		**********	
		< SWITCH >	
SW1	1-572-288-21	SWITCH, PUSH (DISC IN)	
SW2	1-572-288-21	SWITCH, PUSH (SELF)	
**********			
		KEY BOARD	
		**********	
	1-694-781-11	CONDUCTIVE BOARD, CONNECTION	
*	3-225-129-01	PLATE (LCD), LIGHT GUIDE	
*	3-225-130-01	REFLECTOR (LCD)	
*	3-225-131-01	ILLUMINATOR (LCD) (L350)	
	3-225-131-11	ILLUMINATOR (LCD) (L360)	
*	3-225-132-01	PLATE (LCD), GROUND	
		< CAPACITOR >	
C971	1-164-227-11	CERAMIC CHIP 0.022uF 10% 25V	
C972	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C973	1-107-826-11	CERAMIC CHIP 0.1uF 10% 16V	
C975	1-127-715-11	CERAMIC CHIP 0.22uF 10% 16V	
C976	1-162-927-11	CERAMIC CHIP 100PF 5% 50V	
		< CONNECTOR >	
CN901	1-794-312-11	PIN, CONNECTOR 12P	
		< DIODE >	
D902	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D903	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D904	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D971	8-719-976-99	DIODE DTZ5.1B	
		< IC >	
IC901	8-759-366-34	IC LC75824E	
		< LIQUID CRYSTAL DISPLAY >	
LCD901	1-804-299-11	DISPLAY PANEL, LIQUID CRYSTAL	
		< DIODE >	
LED901	8-719-037-96	LED CL-190G-CD-T (DISC IN L) (WHITE,GREEN)	
LED901	8-719-038-03	LED CL-190Y-CD-T (DISC IN L) (AMBER)	
LED902	8-719-037-96	LED CL-190G-CD-T (DISC IN R) (WHITE,GREEN)	
LED902	8-719-038-03	LED CL-190Y-CD-T (DISC IN R) (AMBER)	
LED903	8-719-082-69	LED LBT673-M2N1N2 (VOL ILLUMINATION) (WHITE)	
LED903	8-719-082-71	LED LOT676-RS (VOL ILLUMINATION) (AMBER)	
LED903	8-719-084-33	LED LTT673-Q2R1R2 (VOL ILLUMINATION) (GREEN)	
LED904	8-719-082-69	LED LBT673-M2N1N2 (SEEK ILLUMINATION) (WHITE)	
LED904	8-719-082-71	LED LOT676-RS (SEEK ILLUMINATION) (AMBER)	
LED904	8-719-084-33	LED LTT673-Q2R1R2 (SEEK ILLUMINATION) (GREEN)	
		< SWITCH >	
LSW901	1-771-882-11	SWITCH, TACTILE (WITH LED) (⏏) (AMBER)	
LSW901	1-786-106-21	SWITCH, TACTILE (WITH LED) (⏏) (WHITE,GREEN)	
LSW902	1-771-882-11	SWITCH, TACTILE (WITH LED) (ATT) (AMBER)	
LSW902	1-786-106-21	SWITCH, TACTILE (WITH LED) (ATT) (WHITE,GREEN)	
LSW903	1-771-882-11	SWITCH, TACTILE (WITH LED) (SENS/BTM) (AMBER)	
LSW903	1-786-106-21	SWITCH, TACTILE (WITH LED) (SENS/BTM) (WHITE,GREEN)	
LSW904	1-771-882-11	SWITCH, TACTILE (WITH LED) (AF) (AMBER)	
LSW904	1-786-106-21	SWITCH, TACTILE (WITH LED) (AF) (WHITE,GREEN)	
LSW905	1-771-500-21	SWITCH, KEYBOARD (WITH LED) (MBP)	
LSW906	1-771-500-21	SWITCH, KEYBOARD (WITH LED) (D-BASS)	
LSW907	1-771-882-11	SWITCH, TACTILE (WITH LED) (DSPL) (AMBER)	
LSW907	1-786-106-21	SWITCH, TACTILE (WITH LED) (DSPL) (WHITE,GREEN)	
LSW908	1-771-882-11	SWITCH, TACTILE (WITH LED) (PTY) (AMBER)	
LSW908	1-786-106-21	SWITCH, TACTILE (WITH LED) (PTY) (WHITE,GREEN)	
LSW909	1-771-882-11	SWITCH, TACTILE (WITH LED) (TA) (AMBER)	
LSW909	1-786-106-21	SWITCH, TACTILE (WITH LED) (TA) (WHITE,GREEN)	
LSW910	1-771-882-11	SWITCH, TACTILE (WITH LED) (6) (AMBER)	
LSW910	1-786-106-21	SWITCH, TACTILE (WITH LED) (6) (WHITE,GREEN)	
LSW911	1-771-882-11	SWITCH, TACTILE (WITH LED) (5) (AMBER)	
LSW911	1-786-106-21	SWITCH, TACTILE (WITH LED) (5) (WHITE,GREEN)	

KEY **LIMIT**

Ref. No.	Part No.	Description			Remark
LSW912	1-771-882-11	SWITCH, TACTILE (WITH LED) (4/SHUF)			(AMBER)
LSW912	1-786-106-21	SWITCH, TACTILE (WITH LED) (4/SHUF)			(WHITE,GREEN)
LSW913	1-771-882-11	SWITCH, TACTILE (WITH LED) (3/REP)			(AMBER)
LSW913	1-786-106-21	SWITCH, TACTILE (WITH LED) (3/REP)			(WHITE,GREEN)
LSW914	1-771-882-11	SWITCH, TACTILE (WITH LED) (2) (AMBER)			
LSW914	1-786-106-21	SWITCH, TACTILE (WITH LED) (2)			(WHITE,GREEN)
LSW915	1-771-882-11	SWITCH, TACTILE (WITH LED) (1) (AMBER)			
LSW915	1-786-106-21	SWITCH, TACTILE (WITH LED) (1)			(WHITE,GREEN)
		< PILOT LAMP >			
PL901	1-518-743-21	LAMP, PILOT (AMBER)			
PL901	1-518-743-31	LAMP, PILOT (GREEN)			
PL901	1-518-743-41	LAMP, PILOT (WHITE)			
PL902	1-518-743-21	LAMP, PILOT (AMBER)			
PL902	1-518-743-31	LAMP, PILOT (GREEN)			
PL902	1-518-743-41	LAMP, PILOT (WHITE)			
		< RESISTOR >			
R901	1-216-819-11	METAL CHIP	680	5%	1/16W
R902	1-216-819-11	METAL CHIP	680	5%	1/16W
R903	1-216-819-11	METAL CHIP	680	5%	1/16W
R904	1-216-821-11	METAL CHIP	1K	5%	1/16W
R905	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R906	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R907	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R908	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R909	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R910	1-216-819-11	METAL CHIP	680	5%	1/16W
R911	1-216-819-11	METAL CHIP	680	5%	1/16W
R912	1-216-819-11	METAL CHIP	680	5%	1/16W
R913	1-216-821-11	METAL CHIP	1K	5%	1/16W
R914	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R915	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R916	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R917	1-216-827-11	METAL CHIP	3.3K	5%	1/16W
R918	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R919	1-216-831-11	METAL CHIP	6.8K	5%	1/16W
R920	1-216-833-11	METAL CHIP	10K	5%	1/16W
R921	1-216-835-11	METAL CHIP	15K	5%	1/16W
R931	1-216-809-11	METAL CHIP	100	5%	1/16W
R932	1-216-808-11	METAL CHIP	82	5%	1/16W
R933	1-216-808-11	METAL CHIP	82	5%	1/16W
R934	1-216-808-11	METAL CHIP	82	5%	1/16W
R935	1-216-808-11	METAL CHIP	82	5%	1/16W
R936	1-216-808-11	METAL CHIP	82	5%	1/16W
R937	1-216-808-11	METAL CHIP	82	5%	1/16W
R938	1-216-808-11	METAL CHIP	82	5%	1/16W
R939	1-216-808-11	METAL CHIP	82	5%	1/16W
R940	1-216-823-11	METAL CHIP	1.5K	5%	1/16W
R941	1-216-819-11	METAL CHIP	680	5%	1/16W (AMBER)

Ref. No.	Part No.	Description			Remark
R942	1-216-808-11	METAL CHIP	82	5%	1/16W
R943	1-216-808-11	METAL CHIP	82	5%	1/16W
R944	1-216-808-11	METAL CHIP	82	5%	1/16W
R945	1-216-808-11	METAL CHIP	82	5%	1/16W
R951	1-216-809-11	METAL CHIP	100	5%	1/16W (WHITE)
R951	1-216-813-11	METAL CHIP	220	5%	1/16W (GREEN,AMBER)
R952	1-216-808-11	METAL CHIP	100	5%	1/16W (WHITE)
R952	1-216-813-11	METAL CHIP	220	5%	1/16W (GREEN,AMBER)
R953	1-216-808-11	METAL CHIP	100	5%	1/16W (WHITE)
R953	1-216-813-11	METAL CHIP	220	5%	1/16W (GREEN,AMBER)
R954	1-216-808-11	METAL CHIP	100	5%	1/16W (WHITE)
R954	1-216-812-11	METAL CHIP	180	5%	1/16W (GREEN)
R954	1-216-813-11	METAL CHIP	220	5%	1/16W (AMBER)
R970	1-216-813-11	METAL CHIP	220	5%	1/16W
R971	1-216-813-11	METAL CHIP	220	5%	1/16W
R972	1-216-821-11	METAL CHIP	1K	5%	1/16W
R973	1-216-821-11	METAL CHIP	1K	5%	1/16W
R974	1-216-821-11	METAL CHIP	1K	5%	1/16W
R975	1-216-857-11	METAL CHIP	1M	5%	1/16W
R976	1-216-851-11	METAL CHIP	330K	5%	1/16W
R977	1-216-813-11	METAL CHIP	220	5%	1/16W
R978	1-216-864-11	SHORT	0		
R981	1-216-809-11	METAL CHIP	100	5%	1/16W (WHITE,GREEN)
R981	1-216-811-11	METAL CHIP	150	5%	1/16W (AMBER)
R982	1-216-810-11	METAL CHIP	120	5%	1/16W
R983	1-216-810-11	METAL CHIP	120	5%	1/16W
R984	1-216-810-11	METAL CHIP	120	5%	1/16W
R991	1-216-864-11	SHORT	0		
		< SWITCH >			
S901	1-771-884-11	SWITCH, TACTILE (WITH LED) (OFF)			
S902	1-771-884-11	SWITCH, TACTILE (WITH LED) (SRC)			
S903	1-771-884-11	SWITCH, TACTILE (WITH LED) (VOL +)			
S904	1-771-884-11	SWITCH, TACTILE (WITH LED) (VOL –)			
S905	1-771-884-11	SWITCH, TACTILE (WITH LED) (MODE)			
S906	1-771-884-11	SWITCH, TACTILE (WITH LED) (SEL)			
S907	1-771-884-11	SWITCH, TACTILE (WITH LED) (SEEK/AMS ⏮ ◀◀ –)			
S908	1-771-884-11	SWITCH, TACTILE (WITH LED) (SEEK/AMS ▶▶ ⏭ +)			
**********					
*	1-659-835-12	LIMIT BOARD			
		**********			
		< SWITCH >			
SW3	1-572-688-11	SWITCH, PUSH (1 KEY) (LIMIT)			
**********					

Ref. No.	Part No.	Description			Remark
*	1-659-837-11	LOAD BOARD			
		**********			
		< SWITCH >			
SW4	1-572-288-21	SWITCH, PUSH (DOWN)			
**********					
*	A-3326-804-A	MAIN BOARD, COMPLETE (L360)			
*	A-3326-805-A	MAIN BOARD, COMPLETE (L350)			
		**********			
*	3-040-998-01	BRACKET (IC)			
*	3-225-135-01	HEAT SINK			
*	3-225-136-01	HEAT SINK (REG)			
*	3-225-271-01	CHASSIS (BACK)			
	7-685-647-79	SCREW +BVTP 3X10 TYPE 2 N-S			
	7-685-793-09	SCREW +PTT 2.6X8 (S)			
	7-685-795-09	SCREW +PTT 2.6X12 (S)			
	7-685-797-09	SCREW +PTT 2.6X16 (S)			
		< CAPACITOR >			
C11	1-162-918-11	CERAMIC CHIP	18PF	5%	50V
C14	1-124-584-00	ELECT	100uF	20%	10V
C15	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C16	1-124-584-00	ELECT	100uF	20%	10V
C17	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C22	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C23	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C25	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C26	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C27	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C28	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C29	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C31	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C32	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C33	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C41	1-125-837-00	CERAMIC CHIP	1uF	10%	6.3V
C42	1-125-837-00	CERAMIC CHIP	1uF	10%	6.3V
C51	1-124-589-11	ELECT	47uF	20%	16V
C52	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C53	1-164-315-11	CERAMIC CHIP	470PF	5%	50V
C54	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C55	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C56	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C57	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C58	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C59	1-162-959-11	CERAMIC CHIP	330PF	5%	50V
C61	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C62	1-164-739-11	CERAMIC CHIP	560PF	5%	50V
C63	1-162-966-11	CERAMIC CHIP	0.0022uF	10%	50V
C64	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C302	1-124-234-00	ELECT	22uF	20%	16V
C303	1-124-234-00	ELECT	22uF	20%	16V

Ref. No.	Part No.	Description			Remark
C305	1-124-584-00	ELECT	100uF	20%	10V
C331	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C332	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C341	1-124-234-00	ELECT	22uF	20%	16V
C342	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C343	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C401	1-124-589-11	ELECT	47uF	20%	16V
C402	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C403	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C404	1-125-891-11	CERAMIC CHIP	0.47uF	10%	10V
C405	1-124-233-11	ELECT	10uF	20%	16V
C406	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C411	1-124-233-11	ELECT	10uF	20%	16V
C412	1-124-233-11	ELECT	10uF	20%	16V
C431	1-124-233-11	ELECT	10uF	20%	16V
C433	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C441	1-124-233-11	ELECT	10uF	20%	16V
C442	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C451	1-124-233-11	ELECT	10uF	20%	16V
C453	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C461	1-124-233-11	ELECT	10uF	20%	16V
C463	1-127-715-11	CERAMIC CHIP	0.22uF	10%	16V
C471	1-125-837-00	CERAMIC CHIP	1uF	10%	6.3V
C472	1-165-176-11	CERAMIC CHIP	0.047uF	10%	16V
C473	1-124-233-11	ELECT	10uF	20%	16V
C474	1-126-160-11	ELECT	1uF	20%	50V
C475	1-124-589-11	ELECT	47uF	20%	16V
C477	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C479	1-124-589-11	ELECT	47uF	20%	16V
C480	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C501	1-162-968-11	CERAMIC CHIP	0.0047uF	10%	50V
C502	1-162-915-11	CERAMIC CHIP	10PF	0.5PF	50V
C503	1-162-917-11	CERAMIC CHIP	15PF	5%	50V
C504	1-162-919-11	CERAMIC CHIP	22PF	5%	50V
C505	1-164-160-11	CERAMIC CHIP	20PF	5%	50V
C506	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C510	1-124-584-00	ELECT	100uF	20%	10V
C511	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C529	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C601	1-135-473-21	ELECT	3300uF	20%	16V
C602	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C611	1-126-157-11	ELECT	10uF	20%	16V
C612	1-126-157-11	ELECT	10uF	20%	16V
C613	1-126-157-11	ELECT	10uF	20%	16V
C614	1-126-157-11	ELECT	10uF	20%	16V
C617	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C622	1-125-710-11	DOUBLE LAYERS	0.1F		5.5V
C631	1-126-160-11	ELECT	1uF	20%	50V
C661	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C801	1-216-864-11	SHORT	0		
C803	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V
C804	1-162-964-11	CERAMIC CHIP	0.001uF	10%	50V

MAIN

Ref. No.	Part No.	Description	Remark
C805	1-162-966-11	CERAMIC CHIP 0.0022uF 10%	50V
		< CONNECTOR >	
CN701	1-794-311-21	PLUG, CONNECTOR 12P	
CNP301	1-764-617-12	PIN, CONNECTOR (PC BOARD) 30P	
CNP601	1-774-701-11	PIN, CONNECTOR 16P	
		< DIODE >	
D21	8-719-073-01	DIODE MA111-(K8).S0	
D22	8-719-073-01	DIODE MA111-(K8).S0	
D23	8-719-976-99	DIODE DTZ5.1B	
D331	8-719-056-84	DIODE UDZ-TE-17-7.5B	
D332	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D341	8-719-158-15	DIODE RD5.6SB	
D471	8-719-053-18	DIODE 1SR154-400TE-25	
D472	8-719-053-18	DIODE 1SR154-400TE-25	
D473	8-719-053-18	DIODE 1SR154-400TE-25	
D474	8-719-053-18	DIODE 1SR154-400TE-25	
D475	8-719-053-18	DIODE 1SR154-400TE-25	
D476	8-719-053-18	DIODE 1SR154-400TE-25	
D477	8-719-053-18	DIODE 1SR154-400TE-25	
D478	8-719-053-18	DIODE 1SR154-400TE-25	
D479	8-719-073-01	DIODE MA111-(K8).S0	
D480	8-719-158-15	DIODE RD5.6SB	
D551	8-719-056-84	DIODE UDZ-TE-17-7.5B	
D556	8-719-057-80	DIODE MA8180-M-TX	
D601	8-719-049-38	DIODE 1N5404TU	
D609	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D610	8-719-056-65	DIODE 1SS372-TE85L	
D613	8-719-053-18	DIODE 1SR154-400TE-25	
D614	8-719-053-18	DIODE 1SR154-400TE-25	
D621	8-719-067-56	DIODE MA112-TX	
D651	8-719-057-80	DIODE MA8180-M-TX	
D671	8-719-073-01	DIODE MA111-(K8).S0	
D701	8-719-073-01	DIODE MA111-(K8).S0	
D710	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D711	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D715	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D716	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D717	8-719-056-83	DIODE UDZ-TE-17-6.8B	
D718	8-719-056-83	DIODE UDZ-TE-17-6.8B	
		< IC >	
IC20	8-759-100-96	IC uPC4558G2-E1	
IC51	8-759-492-59	IC SAA6588T/V2-118	
IC401	8-759-653-27	IC TDA7402TR	
IC404	8-759-486-44	IC TDA7386	
IC501	8-759-828-83	IC MN101C49KTD	
IC601	8-759-661-47	IC BA4908-V3	
IC602	8-759-682-69	IC XC61CN4302MR	
		< JACK >	
J10	1-815-185-11	JACK (ANTENNA)	
J561	1-566-822-41	JACK (REMOTE IN) (L360)	
		< COIL >	
L500	1-419-476-11	COIL, CHOKE 250uH	

Ref. No.	Part No.	Description	Remark
		< TRANSISTOR >	
Q21	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q22	8-729-900-53	TRANSISTOR DTC114EK	
Q331	8-729-021-82	TRANSISTOR 2SD2396K	
Q332	8-729-047-76	TRANSISTOR FMC2A-T148	
Q333	8-729-900-53	TRANSISTOR DTC114EK	
Q341	8-729-106-68	TRANSISTOR 2SD1615A-GP	
Q431	8-729-920-21	TRANSISTOR DTC314TKH04	
Q441	8-729-920-21	TRANSISTOR DTC314TKH04	
Q451	8-729-920-21	TRANSISTOR DTC314TKH04	
Q461	8-729-920-21	TRANSISTOR DTC314TKH04	
Q478	8-729-900-53	TRANSISTOR DTC114EK	
Q479	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q551	8-729-900-53	TRANSISTOR DTC114EK	
Q556	8-729-900-53	TRANSISTOR DTC114EK	
Q557	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q631	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q651	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q661	8-729-821-63	TRANSISTOR 2SB1203T-FA	
Q662	8-729-900-53	TRANSISTOR DTC114EK	
Q664	8-729-027-23	TRANSISTOR DTA114EKA-T146	
		< RESISTOR >	
R21	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R22	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R24	1-216-833-11	METAL CHIP 10K 5%	1/16W
R25	1-216-833-11	METAL CHIP 10K 5%	1/16W
R26	1-216-817-11	METAL CHIP 470 5%	1/16W
R27	1-216-845-11	METAL CHIP 100K 5%	1/16W
R28	1-216-857-11	METAL CHIP 1M 5%	1/16W
R29	1-216-809-11	METAL CHIP 100 5%	1/16W
R31	1-216-831-11	METAL CHIP 6.8K 5%	1/16W
R32	1-216-845-11	METAL CHIP 100K 5%	1/16W
R41	1-216-841-11	METAL CHIP 47K 5%	1/16W
R52	1-216-853-11	METAL CHIP 470K 5%	1/16W
R53	1-216-821-11	METAL CHIP 1K 5%	1/16W
R54	1-216-827-11	METAL CHIP 3.3K 5%	1/16W
R56	1-216-797-11	METAL CHIP 10 5%	1/16W
R57	1-216-817-11	METAL CHIP 470 5%	1/16W
R60	1-216-797-11	METAL CHIP 10 5%	1/16W
R331	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R332	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R333	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R334	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R341	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R342	1-216-825-11	METAL CHIP 2.2K 5%	1/16W
R403	1-216-841-11	METAL CHIP 47K 5%	1/16W
R431	1-216-813-11	METAL CHIP 220 5%	1/16W
R432	1-216-841-11	METAL CHIP 47K 5%	1/16W
R433	1-216-833-11	METAL CHIP 10K 5%	1/16W
R434	1-216-813-11	METAL CHIP 220 5%	1/16W
R441	1-216-813-11	METAL CHIP 220 5%	1/16W
R442	1-216-841-11	METAL CHIP 47K 5%	1/16W

Ref. No.	Part No.	Description			Remark
R443	1-216-833-11	METAL CHIP	10K	5%	1/16W
R444	1-216-813-11	METAL CHIP	220	5%	1/16W
R451	1-216-813-11	METAL CHIP	220	5%	1/16W
R452	1-216-841-11	METAL CHIP	47K	5%	1/16W
R453	1-216-833-11	METAL CHIP	10K	5%	1/16W
R454	1-216-813-11	METAL CHIP	220	5%	1/16W
R461	1-216-813-11	METAL CHIP	220	5%	1/16W
R462	1-216-841-11	METAL CHIP	47K	5%	1/16W
R463	1-216-833-11	METAL CHIP	10K	5%	1/16W
R464	1-216-813-11	METAL CHIP	220	5%	1/16W
R471	1-216-833-11	METAL CHIP	10K	5%	1/16W
R472	1-216-801-11	METAL CHIP	22	5%	1/16W
R473	1-216-821-11	METAL CHIP	1K	5%	1/16W
R474	1-216-833-11	METAL CHIP	10K	5%	1/16W
R475	1-216-864-11	SHORT	0		
R479	1-216-805-11	METAL CHIP	47	5%	1/16W
R480	1-216-864-11	SHORT	0		
R501	1-216-837-11	METAL CHIP	22K	5%	1/16W
R502	1-216-806-11	METAL CHIP	56	5%	1/16W
R503	1-216-845-11	METAL CHIP	100K	5%	1/16W
R504	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R505	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R506	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R507	1-216-841-11	METAL CHIP	47K	5%	1/16W
R508	1-216-845-11	METAL CHIP	100K	5%	1/16W
R510	1-216-809-11	METAL CHIP	100	5%	1/16W
R511	1-216-809-11	METAL CHIP	100	5%	1/16W
R512	1-216-809-11	METAL CHIP	100	5%	1/16W
R514	1-216-809-11	METAL CHIP	100	5%	1/16W
R515	1-216-809-11	METAL CHIP	100	5%	1/16W
R516	1-216-809-11	METAL CHIP	100	5%	1/16W
R517	1-216-809-11	METAL CHIP	100	5%	1/16W
R519	1-216-845-11	METAL CHIP	100K	5%	1/16W
R520	1-216-845-11	METAL CHIP	100K	5%	1/16W
R521	1-216-845-11	METAL CHIP	100K	5%	1/16W
R524	1-216-845-11	METAL CHIP	100K	5%	1/16W
R525	1-216-845-11	METAL CHIP	100K	5%	1/16W
R526	1-216-845-11	METAL CHIP	100K	5%	1/16W
R527	1-216-845-11	METAL CHIP	100K	5%	1/16W
R528	1-216-845-11	METAL CHIP	100K	5%	1/16W
R529	1-216-833-11	METAL CHIP	10K	5%	1/16W
R530	1-216-833-11	METAL CHIP	10K	5%	1/16W
R551	1-216-821-11	METAL CHIP	1K	5%	1/16W
R555	1-216-841-11	METAL CHIP	47K	5%	1/16W
R556	1-216-821-11	METAL CHIP	1K	5%	1/16W
R557	1-216-841-11	METAL CHIP	47K	5%	1/16W
R609	1-216-821-11	METAL CHIP	1K	5%	1/16W
R631	1-216-214-00	RES-CHIP	4.7K	5%	1/8W
R632	1-216-841-11	METAL CHIP	47K	5%	1/16W
R633	1-216-841-11	METAL CHIP	47K	5%	1/16W
R634	1-216-829-11	METAL CHIP	4.7K	5%	1/16W
R636	1-216-845-11	METAL CHIP	100K	5%	1/16W
R651	1-216-821-11	METAL CHIP	1K	5%	1/16W
R652	1-216-841-11	METAL CHIP	47K	5%	1/16W
R653	1-216-833-11	METAL CHIP	10K	5%	1/16W
R654	1-216-833-11	METAL CHIP	10K	5%	1/16W
R660	1-216-825-11	METAL CHIP	2.2K	5%	1/16W
R661	1-216-833-11	METAL CHIP	10K	5%	1/16W
R662	1-247-791-00	CARBON	22	5%	1/4W
R663	1-247-791-00	CARBON	22	5%	1/4W
R664	1-247-791-00	CARBON	22	5%	1/4W
R665	1-247-791-00	CARBON	22	5%	1/4W
R671	1-216-809-11	METAL CHIP	100	5%	1/16W
R672	1-216-809-11	METAL CHIP	100	5%	1/16W
R673	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R701	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R702	1-218-871-11	METAL CHIP	10K	0.5%	1/16W
R710	1-216-809-11	METAL CHIP	100	5%	1/16W
R711	1-216-809-11	METAL CHIP	100	5%	1/16W
		< SWITCH >			
S702	1-692-431-21	SWITCH, TACTILE (RESET)			
		< TUNER >			
TU10	A-3282-061-A	TUNER UNIT (TUX-020)			
		< VIBRATOR >			
X51	1-579-242-41	VIBRATOR, CRYSTAL (4.332MHz)			
X501	1-781-294-21	VIBRATOR, CRYSTAL (18.432MHz)			
X502	1-567-098-41	VIBRATOR, CRYSTAL (32.768kHz)			
**********					
*	A-3283-047-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C3	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C4	1-104-609-11	ELECT CHIP	100uF	20%	4V
C5	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C6	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C7	1-126-394-11	ELECT CHIP	10uF	20%	16V
C8	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C9	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C10	1-162-924-11	CERAMIC CHIP	56PF	5%	50V
C11	1-162-909-11	CERAMIC CHIP	4PF	0.25PF	50V
C13	1-162-916-11	CERAMIC CHIP	12PF	5%	50V
C14	1-125-837-00	CERAMIC CHIP	1uF	10%	6.3V
C15	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C16	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C17	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C18	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C19	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C20	1-107-826-11	CERAMIC CHIP	0.1uF	10%	16V
C21	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V

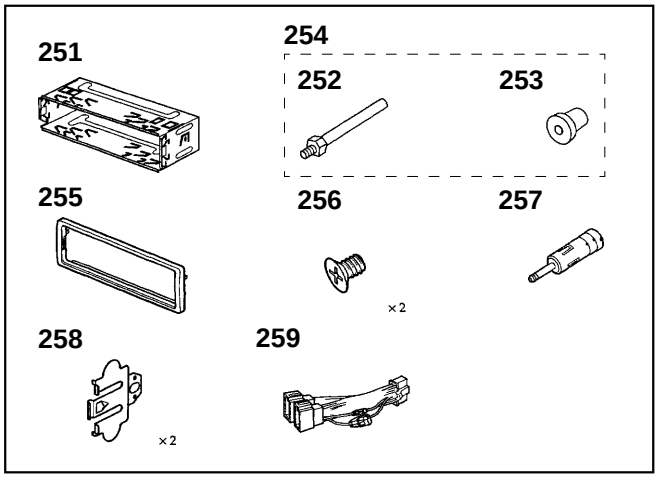
SERVO **SUB**

Ref. No.	Part No.	Description			Remark
C22	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C23	1-162-970-11	CERAMIC CHIP	0.01uF	10%	25V
C24	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C25	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C26	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C27	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C28	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C29	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C30	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C31	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C34	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C35	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C36	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C37	1-126-393-11	ELECT CHIP	33uF	20%	10V
C38	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C39	1-126-391-11	ELECT CHIP	47uF	20%	6.3V
C41	1-164-227-11	CERAMIC CHIP	0.022uF	10%	25V
C43	1-162-967-11	CERAMIC CHIP	0.0033uF	10%	50V
		< CONNECTOR >			
CN1	1-764-616-12	HOUSING, CONNECTOR (PC BOARD) 30P			
CN2	1-794-153-21	CONNECTOR, FPC (ZIF) 16P			
CN3	1-770-347-21	CONNECTOR, FPC 6P			
		< JUMPER RESISTOR >			
FB1	1-216-864-11	SHORT	0		
FB2	1-216-864-11	SHORT	0		
FB4	1-216-864-11	SHORT	0		
FB5	1-216-295-11	SHORT	0		
FB6	1-216-864-11	SHORT	0		
FB7	1-216-864-11	SHORT	0		
		< IC >			
IC1	8-759-699-98	IC uPD63711GC-8EU			
IC2	8-759-658-87	IC BA5810FP-E2			
		< TRANSISTOR >			
Q1	8-729-904-87	TRANSISTOR 2SB1197K-R			
		< RESISTOR >			
R3	1-216-797-11	METAL CHIP	10	5%	1/16W
R5	1-218-344-11	RES-CHIP	7.5K	5%	1/16W
R6	1-216-837-11	METAL CHIP	22K	5%	1/16W
R7	1-216-839-11	METAL CHIP	33K	5%	1/16W
R8	1-216-833-11	METAL CHIP	10K	5%	1/16W
R9	1-216-840-11	METAL CHIP	39K	5%	1/16W
R10	1-216-835-11	METAL CHIP	15K	5%	1/16W
R12	1-216-837-11	METAL CHIP	22K	5%	1/16W
R14	1-216-841-11	METAL CHIP	47K	5%	1/16W
R15	1-216-841-11	METAL CHIP	47K	5%	1/16W
R17	1-216-809-11	METAL CHIP	100	5%	1/16W
R18	1-216-809-11	METAL CHIP	100	5%	1/16W

Ref. No.	Part No.	Description			Remark
R19	1-216-809-11	METAL CHIP	100	5%	1/16W
R20	1-216-809-11	METAL CHIP	100	5%	1/16W
R21	1-216-821-11	METAL CHIP	1K	5%	1/16W
R22	1-216-821-11	METAL CHIP	1K	5%	1/16W
R24	1-216-864-11	SHORT	0		
R25	1-216-864-11	SHORT	0		
R26	1-216-797-11	METAL CHIP	10	5%	1/16W
R29	1-216-833-11	METAL CHIP	10K	5%	1/16W
R30	1-216-833-11	METAL CHIP	10K	5%	1/16W
		< VIBRATOR >			
X1	1-781-759-21	VIBRATOR, CERAMIC (CHIP TYPE) (16.9344MHz)			
**********					
*	1-659-834-11	SUB BOARD			
		**********			
		< CONNECTOR >			
CN1	1-770-347-21	CONNECTOR, FPC 6P			
**********					
		MISCELLANEOUS			
		**********			
5	1-776-527-81	CORD (WITH CONNECTOR) (ISO) (POWER)			
201	X-3378-598-1	CHASSIS (OP) ASSY (including M901)			
207	1-659-880-11	MOTOR FLEXIBLE BOARD			
⚠210	8-820-103-03	PICK-UP, OPTICAL KSS-720A/K1RP			
212	1-676-707-21	PICK-UP FLEXIBLE BOARD			
F901	1-532-877-11	FUSE (BLADE TYPE) (AUTO FUSE) 10A			
M902	A-3291-674-A	MOTOR ASSY, SLED (SLED)			
M903	A-3315-039-A	MOTOR SUB ASSY, LD (LOADING)			
**********					
		ACCESSORIES & PACKING MATERIALS			
		**********			
	3-227-371-11	MANUAL, INSTRUCTION (ENGLISH,FRENCH, GERMAN,DUTCH,ITALIAN)			
	3-227-372-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH,GERMAN,DUTCH,ITALIAN)			
	X-3378-490-1	CASE (PANEL) ASSY (for FRONT PANEL)			
**********					

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety.
Replace only with part number specified.

Ref. No.	Part No.	Description	Remark
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-792-09	SCREW +PTT 2.6X6 (S)	
#2	7-685-795-09	SCREW +PTT 2.6X12 (S)	
#3	7-685-793-09	SCREW +PTT 2.6X8 (S)	
#4	7-685-647-79	SCREW +BVTP 3X10 TYPE 2 N-S	
#5	7-685-797-09	SCREW +PTT 2.6X16 (S)	
#6	7-685-106-19	SCREW +P 2X10 TYPE 2 NON-SLIT	
#7	7-627-850-28	SCREW, PRECISION +P 1.4X3	
#8	7-628-253-00	SCREW +PS 2X4	
#9	7-627-553-37	SCREW, PRECISION +P 2X3 TYPE 3	
#10	7-627-553-17	SCREW, PRECISION +P 2X2 TYPE 3	
**********			
		PARTS FOR INSTALLATION AND CONNECTIONS	
		**********	
251	X-3373-602-1	FRAME ASSY	
252	3-386-828-01	SCREW, FITTING	
253	3-349-410-01	BUSHING	
254	X-3366-405-1	SCREW ASSY (EXP), FITTING	
255	3-225-732-01	COLLAR	
256	3-934-325-01	SCREW, +K (5X8) TAPPING	
257	1-465-459-21	ADAPTOR, ANTENNA	
258	3-041-000-01	SPRING, FITTING	
259	1-776-527-81	CORD (WITH CONNECTOR) (ISO) (POWER)	



REVISION HISTORY

Clicking the version allows you to jump to the revised page.
Also, clicking the version at the upper right on the revised page allows you to jump to the next revised page.

Ver.	Date	Description of Revision
1.0	2001. 02	New